605 THIRD STREET
ENCINITAS, CALIFORNIA 92024
T 760.942.5147 F 760.632.0164

MEMORANDUM

To:	Vinny Tam, AICP, City of Pomona Ronald Chan, PE, City of Pomona
From:	Dennis Pascua, Transportation Services Manager Sabita Tewani, AICP, Transportation Planner Jennifer Reed, Air Quality Services Manager
Subject:	Substantial Evidence Memorandum for Vehicle Miles Traveled Screening Criteria Analysis
Date:	May 4, 2021
cc:	Nicole Cobleigh, Senior Project Manager
Attachment(s):	A: ITE Land use Descriptions B: CalEEMod Reports C: Screening Worksheets

The following Substantial Evidence Memorandum for Vehicle Miles Traveled Screening Analysis has been prepared to establish vehicle miles traveled (VMT) screening thresholds for land use projects proposed in the City of Pomona (City). The analysis is based on land use categories and their associated daily vehicle trip generation, and greenhouse gas (GHG) emission thresholds recommended by the South Coast Air Quality Management District (SCAQMD) for use by lead agencies within their jurisdiction. The following VMT screening thresholds have been calculated to determine whether certain types of projects, specifically residential, general office, light industrial, and warehouse projects, proposed within the City would have a less-than-significant transportation impact to VMT under the current California Environmental Quality Act (CEQA) guidelines. The analysis in the memorandum is based on the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 (CAPCOA 2017) emission modeling conducted by RK Engineering using trip generation rates from the Institute of Transportation Engineers' (ITE) Trip Generation, 10th edition (2017) for those selected land uses.

This memorandum will be used to support the City's Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment (City of Pomona 2020) in screening projects for VMT impacts and determine whether further analysis would be required. The Governor's Office of Planning and Research Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018) has also been used in preparing this memorandum.

1 Need and Purpose

The City recognizes that projects generating less than 110 average daily trips (ADT)[1] would generally be assumed to have a less-than-significant transportation impact under CEQA. This is consistent with the general concept recommended by the Governor's Office of Planning and Research (OPR) for small project screening, namely that,

[1] CEQA provides a categorical exemption for existing facilities, including additions to existing structures of up to 10,000 square feet, so long as the project is in an area where public infrastructure is available to allow for maximum planned development and the project is not in an environmentally sensitive area (CEQA Guidelines Section 15301 (e)(2)). Typical project types for which trip generation increases relatively linearly with building footprint (i.e., general office building, single-tenant office building, office park, and business park) generate or attract an additional 110–124 trips per 10,000 square feet. Therefore, absent substantial evidence otherwise, it is reasonable to conclude that the addition of 110 or fewer trips could be considered not to lead to a significant impact.

absent substantial evidence indicating that a project would generate a potentially significant level of VMT or inconsistency with a Sustainable Communities Strategy or General Plan, projects that generate or attract fewer than 110 ADT (i.e. a net increase of 110 ADT or more) generally may be assumed to have a less-than-significant transportation impact. Residential projects that propose a mix of uses such as commercial or retail uses would apply the City's screening criteria (per OPR guidance) applicable to local-serving retail uses which specifies that local-serving retail uses less than 50,000 square feet are presumed to have less-than-significant VMT impact and screens-out local-serving uses from further VMT analysis. Local-serving retail uses greater than 50,000 square feet would not screen out from further VMT analysis. This memorandum provides evidence to support the adoption of VMT screening criteria for land use projects in the City. Specifically, it helps establish what is often referred to as "small project" screening criteria, which can be used for streamlining the CEQA review process based on project type and size based on VMT and GHG emissions.

2 Evaluation of Land use Categories

Impacts to VMT and GHG emissions for the subject land uses were evaluated as part of this memorandum. The analysis utilizes local and regional travel demand modeling data from the Southern California Association of Governments (SCAG) and the recommended GHG emissions thresholds from the SCAQMD to help evaluate impacts. Per the City's request, the following land use and size categories were evaluated for GHG emissions based on daily trip generation and emissions estimated using CalEEMod:

Residential[2]

- 150 single-family units
- 200 multifamily units

Nonresidential

- 80,000 square feet general office
- 150,000 square feet light industrial use
- 150,000 square feet warehouse

Trip generation represents the number of trips that are produced and attracted by a land use. The current version of the ITE Trip Generation Manual (10th edition; ITE 2017) was used in this analysis to estimate trip generation for common land use types in the City (see Attachment A for ITE Land Use Descriptions). Use of the ITE Trip Generation Manual is an industry standard and provides a comprehensive data set of surveyed trip generation rates for a variety of land uses. Table 1 presents the daily trip rates and trip generation for the land uses under consideration.

[2] Residential projects that propose a mix of uses such as commercial or retail uses would apply the City's screening criteria (per Governor's Office of Planning and Research guidance) applicable to local-serving retail uses less than 50,000 square feet to presume less-than-significant VMT impact and screen-out local-serving uses from further VMT analysis.

Table 1. Trip Generation Analysis

Trip Generation Data	Residential		Nonresidential		
	Single-Family	Multifamily	General Office	General Light Industrial	Warehouse
Project Size	150 DU	200 DU	80 TSF	150 TSF	150 TSF
ITE Land Use Code	210	220	710	110	150
Daily Trip Rate[1]	9.44 trips/DU	7.32 trips/DU	9.74 trips/TSF	4.96 trips/TSF	1.74 trips/TSF
Daily Trip Total	1,416	1,464	779	744	261

Notes: DU = dwelling units, TSF = thousand square feet.
[1] Weekday daily ITE average trip rate

3 Impact to Per-Capita VMT

The updated CEQA Guidelines themselves do not establish a significance threshold, the Governor's Office of Planning and Research's Technical Advisory and the City Transportation Study Guidelines 2020 recommend a threshold of significance to determine potential project generated VMT impacts and project's effect on VMT impacts. Per the City's guidelines, the total VMT per service population or the VMT associated with either home-based trips for residential projects or home-based work trips for employment generating projects (e.g. office, industrial, commercial) may be used for the impact analysis (City of Pomona 2020).

Per the City's guidelines, a project would result in a significant VMT impact if either of the following conditions occur:

- If the VMT rate generated by the project exceeds a level of 15% below the San Gabriel Valley Council of Governments (SGVCOG) Southeast Subarea baseline VMT rate for the traffic analysis zone where the project is located.
- The project results in a higher future VMT rate for the City than the future No Project.

The following analysis was prepared to evaluate how an individual project's total and per-capita VMT would compare to the subarea VMT from the SGVCOG web-based VMT Screening Tool. The SGVCOG VMT Screening Tool provides the total VMT per Service Population for the Southeast Subarea and can be accessed at the following link: https://apps.fehrandpeers.com/SGVCOGVMT/.

Table 2 shows the SCAG base model (year 2012) statistics used in estimating the demographic characteristics for land use categories.

Table 2. SCAG Base Model (Year 2012) Statistics and Assumptions

SCAG Base Model (Year 2012) Statistics	
Home-based VMT per capita[1]	17.78
Employment (Commute) VMT per Employee[1]	22.11
Pomona Total Population (2012)[2]	150,500
Pomona Total Employment (2012)[2]	55,100
Pomona Total Households [2]	38,600
Population per Household[3]	3.90

Table 2. SCAG Base Model (Year 2012) Statistics and Assumptions

SCAG Base Model (Year 2012) Statistics	
Office Employees per TSF[4]	4.00
Industrial Employees per TSF[4]	1.67
High Cube Employees per TSF[4]	0.50

Notes:
1 SGVCOG Southeast Subarea. Obtained from SGVCOG VMT Evaluation Tool (SGVCOG 2021); SCAG Base Model Year 2012.
2 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy Final Growth Forecast by Jurisdiction
3 Population per household = (Total Population) / (Total Households)
4 San Bernardino County Public Works Non-residential Growth Conversion Factors (San Bernardino County Public Works 2013).

For each of the land use category shown in Table 1 (i.e., single-family residential, multifamily residential, office, industrial, and warehouse), the daily VMT and VMT per capita was calculated using CalEEMod and SCAG demographic data. The CalEEMod default trip rates, which are based on the ITE Trip Generation, 9th edition, were replaced with 10th edition (2017) trip rates to reflect the best currently available information. CalEEMod default trip characteristics (such as trip type, trip length, and trip purpose) were applied, which are explained in its Appendix A, Calculation Details for CalEEMod (CAPCOA 2017). Trip characteristics are made up of three variables: trip type, trip length, and trip purpose. For residential land uses, CalEEMod includes three trip types: work, shopping, and other. CalEEMod default values assign a percentage of trips to various purposes and then assign trip lengths to each of these trips based on the project's location and urbanization. The CalEEMod defaults for urban Los Angeles were used to estimate project VMT. Finally, CalEEMod calculates trip purposes, which are broken into three types: primary, diverted, or pass-by trip. A primary trip is the most common type of trip and occurs when the destination is the chief or only purpose of the trip, such as driving to work. A diverted trip is an extra leg on a primary trip, such as going shopping while traveling from work to home. A diverted trip is assumed to be 25% of the length of the primary trip in CalEEMod. A pass-by trip is similar to a diverted trip, but is on the primary route, such as getting coffee on the way to work. CalEEMod assumes pass-by trip are 0.1 miles in length.

This estimated VMT per-capita for each land use using CalEEMod inputs and demographic data was then compared to the total VMT per-service population (i.e., 39.71) for the subarea average from the SGVCOG VMT Screening Tool for the City. This provided a comparison of VMT generated by each land use and to the Southeast Subarea average within which the City is located.

Tables 3 and 4 show the daily VMT and per-capita estimate from residential and nonresidential land uses, respectively. The comparison shows that VMT for each land use (except for the warehouse use) is lower than the Southeast Subarea VMT efficiency rate.

Table 3. VMT by Land Use for Residential Use

Residential Use	Average Overall Trip Length[1]	Daily VMT[1]	Persons per Household[2]	No. of Units	Total Persons[3]	VMT per Capita[4]	SGVCOG VMT Threshold		
							Per Service Population	15% Below	Exceeded?
Single-Family Use	9.39	13,134	3.9	150	585	22.45	39.71	33.75	No
Multifamily Use	9.39	13,685	3.9	200	780	17.54	39.71	33.75	No

Notes: VMT = Vehicle Miles Traveled.
1 Average overall trip length estimated from CalEEMod.
2 Persons per Household estimated from Table 1.
3 Total persons estimated by multiplying persons per household with number of units.
4 VMT per capita estimated by dividing daily VMT with total persons.

Table 4. VMT by Land Use for Nonresidential Use

Residential Use	Average Overall Trip Length[1]	Daily VMT[1]	Employee per TSF[2]	No. of Units (in TSF)	Total Persons[3]	VMT per Employee[4]	SGVCOG VMT Threshold		
							Per Service Population	15% Below	Exceeded?
General Office	8.85	5,220	4.0	80	320	16.31	39.71	33.75	No
Light Industrial	12.17	8,287	1.67	150	251	33.08	39.71	33.75	No
Warehouse (Light-duty vehicles only)	15.48	2,787	0.5	150	75	37.16	39.71	33.75	Yes

Notes: VMT = Vehicle Miles Traveled; TSF = thousand square feet
1 Average overall trip length estimated from CalEEMod.
2 Employees per TSF estimated from Table 1.
3 Total persons estimated by multiplying employees per thousand square feet (TSF) with number of units.
4 VMT per capita estimated by dividing daily VMT with total employees.

The VMT per capita or employee generated from each of the land uses (except for the warehouse use) is below the 15% threshold for the SGVCOG Southeast Subarea and therefore meets the City's VMT screening criteria. Since the warehouse use cannot be screened out using this criteria, the exclusion of warehouse use from VMT screening evaluation is discussed separately under Section 5. Additionally, the City's Project Screening criteria for projects that generate less than 110 net new daily vehicle trips may be assumed to have a less-than-significant transportation impact and would apply to screen small warehouse projects (i.e., 63,000 square feet of warehousing).

4 Consistency with Greenhouse Gas Emissions Threshold

One of the primary objectives for implementing VMT metrics in CEQA is to reduce GHG emissions. In general, the more VMT a project generates, the more GHG emissions it will generate. Thus, it is important that VMT screening criteria be consistent with established GHG thresholds of significance to help ensure that a project that may result in an impact to GHG is not overlooked for potential impacts to VMT as well.

This section provides a brief analysis of GHG emissions for the subject land use types and compares the estimated emissions to the SCAQMD recommended CEQA GHG Significance Thresholds. All GHG emissions are presented in terms of metric tons of carbon dioxide equivalent (MT CO_2e), which is a metric used to compare emissions from various GHGs on the basis of their global warming potential, by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential.[3]

For background, in October 2008, the SCAQMD recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008). This guidance document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency.

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal, issued in September 2010, uses a five-tier approach to evaluate potential GHG impacts from various uses (SCAQMD 2010). Of relevance, Tier 3 recommends considering whether the project generates GHG emissions in excess of screening thresholds for individual land uses under two options. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. The 10,000 MT CO_2e per year threshold for industrial uses would be recommended for use by all lead agencies. The thresholds applied in this screening assessment represent the industry standard thresholds applied in CEQA GHG

[3] For example, the global warming potential is 25 for methane and 298 for nitrous oxide based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007) as applied in CalEEMod version 2016.3.2, which means that emissions of 1 MT of methane and 1 MT of nitrous oxide is equivalent to emissions of 25 MT and 298 MT of carbon dioxide, respectively.

emissions impact analyses, which include the option 2 3,000 MT CO_2e per year for all non-industrial projects for all land uses considered herein, with the exception of the office land use for which the option 1 commercial project threshold of 1,400 MT CO_2e per year is applied.

As mentioned previously, CalEEMod was used to calculate GHG emissions. CalEEMod is a statewide land use emissions computer model developed for the California Air Pollution Control Officers Association in collaboration with the California air districts for CEQA analysis purposes.

Generally, the default modeling assumption was used in CalEEMod, with a few exceptions, which help provide for a more conservative analysis. Key adjustments to the model include updating the trip generation rates to be consistent with the latest ITE trip generation manual and making adjustments to the warehouse and light industrial uses to more accurately estimate GHG emissions consistent with industry standard approaches, and in particular with regards to increases in truck usage. In particular, for the warehouse use, employee trips (light-duty vehicles) and heavy-duty truck trips were modeled separately in CalEEMod to account for changes in default fleet mix and trip length, and forklifts were added as offroad equipment emission sources. Overall, a good faith effort was put forth to provide a conservative estimate of potential GHG emissions for all land uses evaluated herein.[4] CalEEMod assumptions, including changes to CalEEMod default emissions assumptions, are shown in the annual emissions report sheets provided in Attachment B.

A summary of the GHG emissions analysis is provided in Table 5.

Table 5. Screening Criteria GHG Emissions Evaluation[1]

Screening Criteria	Residential		Nonresidential		
	Single-Family	Multi family	General Office	General Light Industrial	Warehouse
Project Size	150 DU	200 DU	80.0 TSF	150.0 TSF	150.0 TSF
Annual Emissions (MT CO_2e) [2, 3]	2,868	2,847	1,342	2,627	2,907
SCAQMD Threshold (MT CO_2e/year)[2]	3,000	3,000	1,400	3,000	3,000
Exceed SCAQMD Threshold?	No	No	No	No	No

Notes: DU = dwelling units, TSF = thousand square feet.
1 See Appendix A through F in Attachment B for the CalEEMod annual emissions report sheets.
2 MT CO_2e = metric tons of carbon dioxide equivalent per year.
3 Includes estimated construction emissions (amortized over 30 years) added to operational emissions.

As shown in Table 5, the estimated GHG emissions from the studied land use projects and their relative sizes would be below the applicable SCAQMD thresholds of significance, which includes the commonly used 3,000 MT CO_2e per year threshold and the 1,400 MT CO_2e per year threshold option for commercial use as applied to the office land use. Therefore, the analyzed land uses and their recommended sizes would not exceed their applicable MT CO_2e per year thresholds.

4 Many industry standard adjustments, such as adjusting the carbon dioxide intensity for the electricity provider to reflect current power content mix or adjusting energy consumption to reflect compliance with the Title 24 California Building Energy Efficiency Standards, that would reduce estimated GHG emissions were not made when estimating emissions for all residential and nonresidential uses modeled and as shown in Table 5.

5 Warehouse Exclusion from VMT Screening

Warehouse developments are unique land uses in terms of both VMT and GHG emissions that would benefit from project-specific evaluation, as explained in detail below.

Regarding VMT, Senate Bill (SB) 743 applies to the VMT from automobile travel attributable to a project, which includes on-road passenger vehicles, specifically cars and light trucks; accordingly, SB 743 does not apply to heavy-duty truck travel. Warehouse uses tend to include a higher percentage of heavy-duty truck travel compared to typical land uses (e.g., residential and commercial uses) and the average statewide fleet mix. For example, the warehouse use modeled herein assumes 31% of the vehicle trips would be generated by heavy-duty trucks (i.e., two-axle, three-axle, and four+-axle trucks) consistent with the SCAQMD High Cube Warehouse Vehicle Trip Generation Analysis (October 2016), and these heavy-duty trucks would not be subject to SB 743.

Regarding GHG emissions, heavy-duty truck travel and associated emissions may result in a large portion of the project's GHG emission profile and are required to be included in the CEQA GHG emissions analysis. Of importance, warehouse uses could potentially include additional sources of emissions sources that are either not captured in CalEEMod or specifics are not available to accurately estimate emissions using CalEEMod. For example, warehouse land uses may include diesel-fueled emergency generators that require testing and maintenance that would result in emissions, and if cold storage is proposed, transport refrigeration units that are designed to maintain the temperature inside delivery truck trailers may also result in idling emissions. As noted previously, a good faith effort to capture typical sources was included in the CalEEMod GHG emissions inventory, specifically the inclusion of forklifts, and based on the size of the project, no yard trucks were anticipated based on the SCAQMD high cube warehouse truck trip study white paper on business survey results (SCAQMD 2014). Nonetheless, additional GHG emissions sources may be associated with warehouse land uses, which when considered in the total project-generated GHG emissions, could exceed the 3,000 MT CO_2e per year threshold applied potentially resulting in an inconsistency between the VMT screening and the CEQA GHG emissions significance conclusions if the SCAQMD recommended thresholds are used.

Therefore, for the reasons described above, it is recommended that warehouse uses not have a specific screening criteria. As a first-step for proposed warehouses uses, the SGVCOG VMT Screening Tool can be used to screen warehouse projects using the Industrial land use category.

6 Findings and Conclusions

Based on the analysis above, Table 6 provides a summary of the Pomona VMT screening criteria evaluation. All land use uses analyzed above (except warehouse) would screen out using: 1) the VMT threshold based on projects generating VMT per service population rate that does not exceed a level of 15% below the SGVCOG Southeast Subarea baseline VMT per service population rate for the region, and 2) the GHG threshold based on the SCAQMD recommended thresholds of 3,000 MT CO2e per year for residential and other uses and 1,400 MT CO2e per year for office uses.

Table 6. Screening Criteria Evaluation Summary

Screening Criteria	Residential		Nonresidential		
	Single-Family	Multifamily	General Office	General Light Industrial	Warehouse
Project Size	150 DU	200 DU	80.0 TSF	150.0 TSF	150.0 TSF
Project ADT[1]	1,416	1,464	779	744	261
Per-Capita VMT[2]	22.45	17.54	16.31	33.08	37.16
15% below SGVCOG Threshold (39.71)	Yes	Yes	Yes	Yes	No
Annual GHG Emissions (MT CO_2e)	2,868	2,847	1,342	2,627	2,907
SCAQMD GHG Threshold (MT CO_2e/year)	3,000	3,000	1,400	3,000	3,000
Exceed SCAQMD Threshold?	No	No	No	No	No

Notes: DU = dwelling units; TSF = thousand square feet; ADT = average daily traffic; MT CO_2e = metric tons of carbon dioxide equivalent per year.

1 Project ADT based on ITE Trip Generation Manual, 10th edition (ITE 2017).

2 Percent increase in VMT is based on estimates of home-based trips only, as provided from the SGVCOG VMT Screening Tool.

It is recommended that the City should evaluate warehouse projects based on the size, location, and compliance criteria as described in Section 5 in cases where they do not screen out utilizing the SGVCOG VMT Screening Tool for the Industrial land use category.

Project Screening for Single Land Uses

In summary, based on the substantial evidence put forth in the analysis above, the following land use and size categories would be screened from conducting a detailed VMT analysis in the City of Pomona. This assumes that each land use will be operating as a single use only on a subject property and not in a mixed-use scenario.

Table 7. Land Use and Size Screening Summary

Screening Criteria	Residential		Nonresidential	
	Single-Family	Multifamily	General Office	General Light Industrial
Project Size	150 DU	200 DU	80.0 TSF	150.0 TSF

Notes: DU = dwelling units; TSF = thousand square feet.

Project Screening for Mixed Land Uses

For cases where a mix of land uses are proposed on the project site, the following examples are provided to show the application of the project screening thresholds described above. Attachment C includes example worksheets to illustrate VMT screening analysis for developments with a mix of residential units and for developments with individual uses, respectively.

For projects that propose a mix of single-family and multifamily residential units, the City would evaluate the screening potential by using the daily trip total threshold of 1,464 (as shown in Table 1) and SCAQMD GHG threshold of 3,000 MT CO_2e/year. For example, if a project involves development of 65 single-family units and 115 multifamily units, then the daily trip threshold and GHG threshold would be calculated as shown in Table 8 to determine whether it can be screened from further VMT analysis. As shown in the table, the calculated daily trip total threshold for both residential uses shall not exceed 1,464; the calculated GHG threshold for both uses shall not exceed 3,000 MT CO_2e per year.

Table 8. Example 1 – Screening for Developments with Mix of Residential Uses

Use	No. of Units (DU)	Daily Trip Rate per Unit	Total Average Daily Trips	Exceeds Daily Trip Threshold of 1,464 trips	GHG Emissions (MT CO_2e) per Unit per Year[1]	Total GHG Emissions (MT CO_2e) per Year	Exceeds SCAQMD GHG Threshold of 3,000 MT CO_2e/year
Single-Family	65	9.44	614	No	19.12	1,243	No
Multifamily	115	7.32	842	No	14.24	1,638	No
Total	**180**	**—**	**1,456**	**No**	**-**	**2,881**	**No**

Notes:
DU = dwelling unit; MT CO_2e = metric tons of carbon dioxide equivalent per year; SCAQMD = South Coast Air Quality Management District.

[1] GHG emissions per unit per year (i.e., 19.12 MT CO_2e per single-family unit and 14.24 MT CO_2e per multifamily unit) were estimated by dividing the annual GHG emissions per year of 2,868 MT CO_2e and 2,847 MT CO_2e modeled for 150 single-family units and 200 multifamily units by the number of units, respectively.

As shown in Table 9 below, if a site has an existing use (e.g., 25,000 square feet of office) and the proposed project is to develop 115 multi-family units, then the daily trip threshold and GHG threshold would be calculated as shown in Table 9 to determine whether it can be screened from conducting further VMT analysis. The calculated daily trip total threshold for proposed residential use shall not exceed 1,464; the calculated GHG threshold shall not exceed 3,000 MT CO_2e/year. As shown in the table, VMT screening threshold would not apply to daily trips or emissions from the existing use, and the project would not require estimation of existing daily trips or emissions.

Table 9. Example 2 – Screening for Developments with Proposed Residential Use and Existing Use

Use	No. of Units (DU)	Daily Trip Rate per Unit	Total Average Daily Trips	Exceeds Daily Trip Threshold of 1,464 Trips	GHG Emissions (MT CO_2e) per Unit per Year[1]	Total GHG Emissions (MT CO_2e) per Year	Exceeds SCAQMD GHG Threshold of 3,000 MT CO_2e/year
Proposed Use							
Multifamily	115	7.32	842	No	14.24	1,638	No
Existing Use							
Office	**25 TSF**	Screening thresholds would not apply to existing use.					

Notes:
DU = Dwelling unit; MT CO_2e = metric tons of carbon dioxide equivalent per year; SCAQMD = South Coast Air Quality Management District; TSF = thousand square feet.

[1] GHG emissions per unit per year (i.e., 14.24 MT CO_2e per multifamily unit) were estimated by dividing the annual GHG emissions per year of 2,847 MT CO_2e modeled for 200 multifamily units by the number of units.

As shown in Table 10 below, if a site has an existing use (e.g., 60 multifamily dwelling units), and the project would develop 45,000 square feet of retail, then using the criteria of local-serving retail, the proposed use would be screened from conducting a detailed VMT analysis. The calculated daily trip total threshold and GHG threshold would not apply to retail use for VMT screening purposes. As shown in the table, the VMT screening threshold would not apply to daily trips or emissions from the existing use, and the project would not require estimation of existing daily trips or emissions.

Table 10. Example 3 – Screening for Developments with Retail Use and Existing Use

Use	No. of Units	Screening Threshold
Proposed Use		
Retail	45 TSF	Daily trip or GHG thresholds would not apply since local-serving uses of less than 50 TSF are screened out of VMT analysis.
Existing Use		
Multifamily	60 DUs	Screening thresholds would not apply to existing use

Notes: TSF = thousand square feet; DUs = dwelling units.

Sincerely,

Dennis Pascua
Transportation Services Manager

Sabita Tewani, AICP,
Transportation Planner

Jennifer Reed,
Air Quality Services Manager

7 References

CAPCOA (California Air Pollution Control Officers Association). 2017. California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2. Prepared by Trinity Consultants and the California Air Districts. November 2017. http://www.caleemod.com/.

City of Pomona. 2020. *City of Pomona Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment.* October 2020. Accessed November 2020. https://www.ci.pomona.ca.us/mm/pubwrks/engineering/FINAL_Transportation_Study_Guidelines_Pom ona_-_Oct_2020.pdf.

ITE (Institute of Transportation Engineers). 2017. *Trip Generation Manual*. 10th ed. https://www.ite.org/technical-resources/topics/trip-and-parking-generation/trip-generation-10th-edition-formats/.

IPCC (Intergovernmental Panel on Climate Change). 2007. *Climate Change 2007: The Physical Science Basis*. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, edited by S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller. New York, New York: Cambridge University Press. Accessed May 2019. https://www.ipcc.ch/site/assets/uploads/2018/05/ar4_wg1_full_report-1.pdf.

OPR (California Governor's Office of Planning and Research). 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA.* December 2018. Accessed November 2020. http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

San Bernardino County Public Works. 2013. Non-residential Growth Conversion Factors From Number of Employees to Square Footage. In *Regional Transportation Development Mitigation Plan Report*, July 22, 2014. Accessed January 2021. http://cms.sbcounty.gov/Portals/50/transportation/traffic/Regional-Transportation-Development-Mitigation-Plan.pdf

SCAQMD (South Coast Air Quality Management District). 2008. "Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold." October 2008.

SCAQMD. 2010. "Greenhouse Gases CEQA Significance Thresholds Working Group Meeting No. 15." September 28, 2010. http://www.aqmd.gov/ docs/default-source/ceqa/handbook/greenhouse-gases-(ghg) -ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2.

SCAQMD. 2014. "SCAQMD High Cube Warehouse Truck Trip Study White Paper on Business Survey Results." June 2014. Accessed February 2021. http://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/business-survey-summary.pdf.

SGVCOG (San Gabriel Valley Council of Governments). 2021. Regional Vehicle Miles Travelled Analysis Tool. Accessed February 9, 2021. https://www.sgvcog.org/vmt-analysis-tool.

Attachment A

ITE Land Use Descriptions

- ITE Land use Descriptions

Land Use: 110
General Light Industrial

Description

A light industrial facility is a free-standing facility devoted to a single use. The facility has an emphasis on activities other than manufacturing and typically has minimal office space. Typical light industrial activities include printing, material testing, and assembly of data processing equipment. Industrial park (Land Use 130) and manufacturing (Land Use 140) are related uses.

Additional Data

Time-of-day distribution data for this land use are presented in Appendix A. For the 30 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:30 and 8:30 a.m. and 4:30 and 5:30 p.m., respectively.

The sites were surveyed in the 1980s, the 2000s, and the 2010s in Colorado, Connecticut, Indiana, New Jersey, New York, Oregon, Pennsylvania, and Texas.

Source Numbers

106, 157, 174, 177, 179, 184, 191, 251, 253, 286, 300, 611, 874, 875, 912

Land Use: 130
Industrial Park

Description

An industrial park contains a number of industrial or related facilities. It is characterized by a mix of manufacturing, service, and warehouse facilities with a wide variation in the proportion of each type of use from one location to another. Many industrial parks contain highly diversified facilities—some with a large number of small businesses and others with one or two dominant industries. General light industrial (Land Use 110) and manufacturing (Land Use 140) are related uses.

Additional Data

The sites were surveyed in the 1980s, the 2000s, and the 2010s in California, Georgia, New Jersey, New York, Ontario (CAN), and Pennsylvania.

Source Numbers

106, 162, 184, 251, 277, 422, 706, 747, 753, 937

Land Use: 140
Manufacturing

Description

A manufacturing facility is an area where the primary activity is the conversion of raw materials or parts into finished products. Size and type of activity may vary substantially from one facility to another. In addition to the actual production of goods, manufacturing facilities generally also have office, warehouse, research, and associated functions. General light industrial (Land Use 110) and industrial park (Land Use 130) are related uses.

Additional Data

Time-of-day distribution data for this land use are presented in Appendix A. For the 17 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 6:30 and 7:30 a.m. and 3:00 and 4:00 p.m., respectively.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Minnesota, New Jersey, New York, Oregon, Pennsylvania, South Dakota, Texas, Vermont, and Washington.

Source Numbers

177, 184, 241, 357, 384, 418, 443, 583, 598, 611, 728, 747, 875, 940, 969

Land Use: 150
Warehousing

Description

A warehouse is primarily devoted to the storage of materials, but it may also include office and maintenance areas. High-cube transload and short-term storage warehouse (Land Use 154), high-cube fulfillment center warehouse (Land Use 155), high-cube parcel hub warehouse (Land Use 156), and high-cube cold storage warehouse (Land Use 157) are related uses.

Additional Data

Time-of-day distribution data for this land use are presented in Appendix A. For the 13 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 11:30 a.m. and 12:30 p.m. and 3:00 and 4:00 p.m., respectively.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Connecticut, Minnesota, New Jersey, New York, Ohio, Oregon, Pennsylvania, and Texas.

Source Numbers

184, 331, 406, 411, 443, 579, 583, 596, 598, 611, 619, 642, 752, 869, 875, 876, 914, 940

Land Use: 154
High-Cube Transload and Short-Term Storage Warehouse

Description

A high-cube warehouse (HCW) is a building that typically has at least 200,000 gross square feet of floor area, has a ceiling height of 24 feet or more, and is used primarily for the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. A typical HCW has a high level of on-site automation and logistics management. The automation and logistics enable highly-efficient processing of goods through the HCW. The HCWs included in this land use include transload and short-term facilities. Transload facilities have a primary function of consolidation and distribution of pallet loads (or larger) for manufacturers, wholesalers, or retailers. They typically have little storage duration, high throughput, and are high-efficiency facilities. Short-term HCWs are high-efficiency distribution facilities often with custom/special features built into structure for movement of large volumes of freight with only short-term storage of products. Warehousing (Land Use 150), high-cube fulfillment center warehouse (Land Use 155), high-cube parcel hub warehouse (Land Use 156), and high-cube cold storage warehouse (Land Use 157) are related land uses.

Additional Data

The High-Cube Warehouse/Distribution Center-related land uses underwent specialized consideration through a commissioned study titled *High-Cube Warehouse Vehicle Trip Generation Analysis*, published in October 2016. The results of this study have been incorporated into the 10th Edition *Trip Generation Manual* and are published on the ITE website at http://library.ite.org/pub/a3e6679a-e3a8-bf38-7f29-2961becdd498 where the study is posted.

Time-of-day distribution data for this land use are presented in Appendix A. For the three general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 9:00 and 10:00 a.m. and 3:00 and 4:00 p.m., respectively.

The sites were surveyed in the 1980s, the 2000s, and the 2010s in Alberta (CAN), California, Florida, Michigan, New Jersey, Texas, and Washington.

Source Numbers

331, 605, 619, 642, 645, 649, 739, 750, 752, 903, 904, 941, 942, 943, 969

Land Use: 155
High-Cube Fulfillment Center Warehouse

Description

A high-cube warehouse (HCW) is a building that typically has at least 200,000 gross square feet of floor area, has a ceiling height of 24 feet or more, and is used primarily for the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. A typical HCW has a high level of on-site automation and logistics management. The automation and logistics enable highly-efficient processing of goods through the HCW. High-cube fulfillment center warehouses include warehouses characterized by a significant storage function and direct distribution of ecommerce product to end users. These facilities typically handle smaller packages and quantities than other types of HCWs and often contain multiple mezzanine levels. Warehousing (Land Use 150), high-cube transload and short-term storage warehouse (Land Use 154), high-cube parcel hub warehouse (Land Use 156), and high-cube cold storage warehouse (Land Use 157) are related land uses.

Each fulfillment center in the ITE database has been categorized as either a sort or non-sort facility. A sort facility is a fulfillment center that ships out smaller items, requiring extensive sorting, typically by manual means. A non-sort facility is a fulfillment center that ships large box items that are processed primarily with automation rather than through manual means. Separate sets of data plots are presented for the sort and non-sort fulfillment centers.

Additional Data

The High-Cube Warehouse/Distribution Center-related land uses underwent specialized consideration through a commissioned study titled “High-Cube Warehouse Vehicle Trip Generation Analysis,” published in October 2016. The results of this study have been incorporated into the 10th Edition *Trip Generation Manual* and are posted on the ITE website at http://library.ite.org/pub/a3e6679a-e3a8-bf38-7f29-2961becdd498.

The sites were surveyed in the 2000s and the 2010s in California, New Jersey, and Texas.

Source Numbers

752, 941, 1001, 1002, 1011

Land Use: 156
High-Cube Parcel Hub Warehouse

Description

A high-cube warehouse (HCW) is a building that typically has at least 200,000 gross square feet of floor area, has a ceiling height of 24 feet or more, and is used primarily for the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. A typical HCW has a high level of on-site automation and logistics management. The automation and logistics enable highly-efficient processing of goods through the HCW. High-cube parcel hub warehouses typically serve as regional and local freight-forwarder facilities for time sensitive shipments via airfreight and ground carriers. These sites also often include truck maintenance, wash, or fueling facilities. Warehousing (Land Use 150), high-cube transload and short-term storage warehouse (Land Use 154), high-cube fulfillment center warehouse (Land Use 155), and high-cube cold storage warehouse (Land Use 157) are related land uses.

Additional Data

The High-Cube Warehouse/Distribution Center-related land uses underwent specialized consideration through a commissioned study titled High-Cube Warehouse Vehicle Trip Generation Analysis, published in October 2016. The results of this study have been incorporated into the 10th Edition Trip Generation Manual and are published on the ITE website at http://library.ite.org/pub/a3e6679a-e3a8-bf38-7f29-2961becdd498 where the study is posted.

The sites were surveyed in the 2010s in California, Connecticut, and Minnesota.

Source Numbers

869, 892, 941, 1001, 1011

Land Use: 157
High-Cube Cold Storage Warehouse

Description

A high-cube warehouse (HCW) is a building that typically has at least 200,000 gross square feet of floor area, has a ceiling height of 24 feet or more, and is used primarily for the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their distribution to retail locations or other warehouses. A typical HCW has a high level of on-site automation and logistics management. The automation and logistics enable highly-efficient processing of goods through the HCW. High-cube cold storage warehouses are facilities typified by temperature-controlled environments for frozen food or other perishable products. Warehousing (Land Use 150), high-cube transload and short-term storage warehouse (Land Use 154), high-cube fulfillment center warehouse (Land Use 155), and high-cube parcel hub warehouse (Land Use 156) are related land uses.

Additional Data

The High-Cube Warehouse/Distribution Center-related land uses underwent specialized consideration through a commissioned study titled *High-Cube Warehouse Vehicle Trip Generation Analysis*, published in October 2016. The results of this study have been incorporated into the 10th Edition *Trip Generation Manual* and are published on the ITE website at http://library.ite.org/pub/a3e6679a-e3a8-bf38-7f29-2961becdd498 where the study is posted.

The sites were surveyed in the 2000s and the 2010s in California.

Source Numbers

619, 941, 942, 943

Land Use: 210
Single-Family Detached Housing

Description

Single-family detached housing includes all single-family detached homes on individual lots. A typical site surveyed is a suburban subdivision.

Additional Data

The number of vehicles and residents had a high correlation with average weekday vehicle trip ends. The use of these variables was limited, however, because the number of vehicles and residents was often difficult to obtain or predict. The number of dwelling units was generally used as the independent variable of choice because it was usually readily available, easy to project, and had a high correlation with average weekday vehicle trip ends.

This land use included data from a wide variety of units with different sizes, price ranges, locations, and ages. Consequently, there was a wide variation in trips generated within this category. Other factors, such as geographic location and type of adjacent and nearby development, may also have had an effect on the site trip generation.

Single-family detached units had the highest trip generation rate per dwelling unit of all residential uses because they were the largest units in size and had more residents and more vehicles per unit than other residential land uses; they were generally located farther away from shopping centers, employment areas, and other trip attractors than other residential land uses; and they generally had fewer alternative modes of transportation available because they were typically not as concentrated as other residential land uses.

Time-of-day distribution data for this land use are presented in Appendix A. For the six general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:15 and 8:15 a.m. and 4:00 and 5:00 p.m., respectively. For the two sites with Saturday data, the overall highest vehicle volume was counted between 3:00 and 4:00 p.m. For the one site with Sunday data, the overall highest vehicle volume was counted between 10:15 and 11:15 a.m.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Connecticut, Delaware, Illinois, Indiana, Maryland, Minnesota, Montana, New Jersey, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Vermont, and Virginia.

Source Numbers

100, 105, 114, 126, 157, 167, 177, 197, 207, 211, 217, 267, 275, 293, 300, 319, 320, 356, 357, 367, 384, 387, 407, 435, 522, 550, 552, 579, 598, 601, 603, 614, 637, 711, 716, 720, 728, 735, 868, 903, 925, 936

Land Use: 220
Multifamily Housing (Low-Rise)

Description

Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have one or two levels (floors). Multifamily housing (mid-rise) (Land Use 221), multifamily housing (high-rise) (Land Use 222), and off-campus student apartment (Land Use 225) are related land uses.

Additional Data

In prior editions of *Trip Generation Manual*, the low-rise multifamily housing sites were further divided into rental and condominium categories. An investigation of vehicle trip data found no clear differences in trip making patterns between the rental and condominium sites within the ITE database. As more data are compiled for future editions, this land use classification can be reinvestigated.

For the three sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.72 residents per occupied dwelling unit.

For the two sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96.2 percent of the total dwelling units were occupied.

This land use included data from a wide variety of units with different sizes, price ranges, locations, and ages. Consequently, there was a wide variation in trips generated within this category. Other factors, such as geographic location and type of adjacent and nearby development, may also have had an effect on the site trip generation.

Time-of-day distribution data for this land use are presented in Appendix A. For the 10 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:15 and 8:15 a.m. and 4:45 and 5:45 p.m., respectively. For the one site with Saturday data, the overall highest vehicle volume was counted between 9:45 and 10:45 a.m. For the one site with Sunday data, the overall highest vehicle volume was counted between 11:45 a.m. and 12:45 p.m.

For the one dense multi-use urban site with 24-hour count data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:00 and 8:00 a.m. and 6:15 and 7:15 p.m., respectively.

For the three sites for which data were provided for both occupied dwelling units and residents, there was an average of 2.72 residents per occupied dwelling unit.

The average numbers of person trips per vehicle trip at the five general urban/suburban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.13 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.21 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in British Columbia (CAN), California, District of Columbia, Florida, Georgia, Illinois, Indiana, Maine, Maryland, Minnesota, New Jersey, New York, Ontario, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Virginia, and Washington.

It is expected that the number of bedrooms and number of residents are likely correlated to the number of trips generated by a residential site. Many of the studies included in this land use did not indicate the total number of bedrooms. To assist in the future analysis of this land use, it is important that this information be collected and included in trip generation data submissions.

Source Numbers

168, 187, 188, 204, 211, 300, 305, 306, 319, 320, 321, 357, 390, 412, 418, 525, 530, 571, 579, 583, 864, 868, 869, 870, 896, 903, 918, 946, 947, 948, 951

Land Use: 221
Multifamily Housing (Mid-Rise)

Description

Mid-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have between three and 10 levels (floors). Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), off-campus student apartment (Land Use 225), and mid-rise residential with 1st-floor commercial (Land Use 231) are related land uses.

Additional Data

In prior editions of *Trip Generation Manual*, the mid-rise multifamily housing sites were further divided into rental and condominium categories. An investigation of vehicle trip data found no clear differences in trip making patterns between the rental and condominium sites within the ITE database. As more data are compiled for future editions, this land use classification can be reinvestigated.

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.46 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 95.7 percent of the total dwelling units were occupied.

Time-of-day distribution data for this land use are presented in Appendix A. For the eight general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:00 and 8:00 a.m. and 4:45 and 5:45 p.m., respectively.

For the four dense multi-use urban sites with 24-hour count data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:15 and 8:15 a.m. and 4:15 and 5:15 p.m., respectively. For the three center city core sites with 24-hour count data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 6:45 and 7:45 a.m. and 5:00 and 6:00 p.m., respectively.

For the six sites for which data were provided for both occupied dwelling units and residents, there was an average of 2.46 residents per occupied dwelling unit.

For the five sites for which data were provided for both occupied dwelling units and total dwelling units, an average of 95.7 percent of the units were occupied.

The average numbers of person trips per vehicle trip at the five center city core sites at which both person trip and vehicle trip data were collected were as follows:

- 1.84 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.94 during Weekday, AM Peak Hour of Generator
- 2.07 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 2.59 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 32 dense multi-use urban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.90 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.90 during Weekday, AM Peak Hour of Generator
- 2.00 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 2.08 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 13 general urban/suburban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.56 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.88 during Weekday, AM Peak Hour of Generator
- 1.70 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 2.07 during Weekday, PM Peak Hour of Generator

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), British Columbia (CAN), California, Delaware, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, New Hampshire, New Jersey, Ontario, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Utah, Virginia, and Wisconsin.

Source Numbers

168, 188, 204, 305, 306, 321, 357, 390, 436, 525, 530, 579, 638, 818, 857, 866, 901, 904, 910, 912, 918, 934, 936, 939, 944, 947, 948, 949, 959, 963, 964, 966, 967, 969, 970

Land Use: 222
Multifamily Housing (High-Rise)

Description

High-rise multifamily housing includes apartments, townhouses, and condominiums that have more than 10 levels (floors). They are likely to have one or more elevators. Multifamily housing (low-rise) (Land Use 220), multifamily housing (mid-rise) (Land Use 221), off-campus student apartment (Land Use 225), and high-rise residential with 1st-floor commercial (Land Use 232) are related land uses.

Additional Data

In prior editions of *Trip Generation Manual*, the high-rise multifamily housing sites were further divided into rental and condominium categories. An investigation of vehicle trip data found no clear differences in trip making patterns between the rental and condominium sites within the ITE database. As more data are compiled for future editions, this land use classification can be reinvestigated.

For the 12 sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 1.57 residents per occupied dwelling unit.

For the 26 sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 98.4 percent of the total dwelling units were occupied.

Time-of-day distribution data for this land use are presented in Appendix A. For the eight dense multi-use sites for which 24-hour time-of-day person trip data were collected, the overall highest vehicle volumes during the AM and PM on a weekday were between 7:30 and 8:30 a.m. and 5:30 and 6:30 p.m., respectively. The Saturday and Sunday peak hours for person trips were between 5:00 and 6:00 p.m. and 4:45 and 5:45 p.m., respectively.

For the six center city core sites for which 24-hour time-of-day person trip data were collected, the overall highest vehicle volumes during the AM and PM on a weekday were between 8:00 and 9:00 a.m. and 6:00 and 7:00 p.m., respectively. The Saturday and Sunday peak hours for person trips were between 11:30 a.m. and 12:30 p.m. and 11:00 a.m. and 12:00 p.m., respectively.

For the 12 sites for which data were provided for both occupied dwelling units and residents, there was an average of 1.57 residents per occupied dwelling unit.

For the 26 sites for which data were provided for both occupied dwelling units and total dwelling units, an average of 98.4 percent of the units were occupied.

The average numbers of person trips per vehicle trip at the three center city core sites at which both person trip and vehicle trip data were collected were as follows:

- 2.52 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 2.70 during Weekday, AM Peak Hour of Generator
- 1.88 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 2.22 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the six dense multi-use urban sites at which both person trip and vehicle trip data were collected were as follows:

- 2.81 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 2.49 during Weekday, AM Peak Hour of Generator
- 2.17 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 2.85 during Weekday, PM Peak Hour of Generator

The sites were surveyed in the 1980s, the 2000s, and the 2010s in California, District of Columbia, Maryland, New Jersey, New York, Ontario (CAN), Oregon, Pennsylvania, Virginia, and Washington.

Source Numbers

105, 168, 169, 187, 305, 321, 356, 818, 862, 901, 910, 949, 963, 964, 966, 967

Land Use: 225
Off-Campus Student Apartment

Description

An off-campus student apartment is part of an apartment complex that serves college or university students. These properties are generally located nearby and within walking distance of a college campus. Most apartments include student-related amenities such as free high-speed Internet, study lounges, fitness centers, sports courts, and swimming pools. Apartments included in this land use can be furnished or unfurnished and range in size from studio apartments to apartments with four bedrooms. Units typically have washer and dryers in each unit. Most facilities also include security and 24-hour emergency maintenance.

Additional Data

The data included in this land use has been stratified into two setting/location types: (1) adjacent to campus and (2) over a half mile from campus based on distinct trip generation characteristics.

For the 17 sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 3.09 residents per occupied dwelling unit.

Time-of-day distribution data for this land use are presented in Appendix A. For the 16 sites adjacent to campus and with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 11:45 a.m. and 12:45 p.m. and 6:00 and 7:00 p.m., respectively. For the 17 located at least ½-mile from campus and with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 11:45 a.m. and 12:45 p.m. and 5:15 and 6:15 p.m., respectively.

The sites were surveyed in the 2010s in Arizona, Florida, and Minnesota.

Source Numbers

864, 868, 895, 916

Land Use: 710
General Office Building

Description

A general office building houses multiple tenants; it is a location where affairs of businesses, commercial or industrial organizations, or professional persons or firms are conducted. An office building or buildings may contain a mixture of tenants including professional services, insurance companies, investment brokers, and tenant services, such as a bank or savings and loan institution, a restaurant, or cafeteria and service retail facilities. A general office building with a gross floor area of 5,000 square feet or less is classified as a small office building (Land Use 712). Corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), office park (Land Use 750), research and development center (Land Use 760), and business park (Land Use 770) are additional related uses.

If information is known about individual buildings, it is suggested that the general office building category be used rather than office parks when estimating trip generation for one or more office buildings in a single development. The office park category is more general and should be used when a breakdown of individual or different uses is not known. If the general office building category is used and if additional buildings, such as banks, restaurants, or retail stores are included in the development, the development should be treated as a multiuse project. On the other hand, if the office park category is used, internal trips are already reflected in the data and do not need to be considered.

When the buildings are interrelated (defined by shared parking facilities or the ability to easily walk between buildings) or house one tenant, it is suggested that the total area or employment of all the buildings be used for calculating the trip generation. When the individual buildings are isolated and not related to one another, it is suggested that trip generation be calculated for each building separately and then summed.

Additional Data

The average building occupancy varied considerably within the studies for which occupancy data were provided. The reported occupied gross floor area was 88 for general urban/suburban sites and 96 percent for the center city core and dense multi-use urban sites.

Time-of-day distribution data for this land use for a weekday, Saturday, and Sunday are presented in Appendix A. For the 16 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:30 and 8:30 a.m. and 4:30 and 5:30 p.m., respectively.

For the three general urban/suburban sites with person trip data, the overall highest volumes during the AM and PM on a weekday were counted between 8:45 and 9:45 a.m. and 12:45 and 1:45 p.m., respectively. For the three dense multi-use urban sites with person trip data, the overall highest volumes during the AM and PM on a weekday were counted between 8:30 and 9:30 a.m. and 4:45 and 5:45 p.m., respectively. For the four center city core sites with person trip data, the overall highest volumes during the AM and PM on a weekday were counted between 9:00 and 10:00 a.m. and 12:45 and 1:45 p.m., respectively.

The average numbers of person trips per vehicle trip at the eight center city core sites at which both person trip and vehicle trip data were collected were as follows:

- 2.76 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 2.90 during Weekday, AM Peak Hour of Generator
- 2.91 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 3.02 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 18 dense multi-use urban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.47 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.47 during Weekday, AM Peak Hour of Generator
- 1.46 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 1.53 during Weekday, PM Peak Hour of Generator

The average numbers of person trips per vehicle trip at the 23 general urban/suburban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.30 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.34 during Weekday, AM Peak Hour of Generator
- 1.32 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 1.41 during Weekday, PM Peak Hour of Generator

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Colorado, Connecticut, Georgia, Illinois, Indiana, Kansas, Kentucky, Maine, Maryland, Michigan, Minnesota, Missouri, Montana, New Hampshire, New Jersey, New York, Pennsylvania, Texas, Utah, Virginia, and Washington.

Source Numbers

161, 175, 183, 184, 185, 207, 212, 217, 247, 253, 257, 260, 262, 273, 279, 297, 298, 300, 301, 302, 303, 304, 321, 322, 323, 324, 327, 404, 407, 408, 418, 419, 423, 562, 734, 850, 859, 862, 867, 869, 883, 884, 890, 891, 904, 940, 944, 946, 964, 965, 972

Land Use: 712
Small Office Building

Description

A small office building houses a single tenant and is less than or equal to 5,000 gross square feet in size. It is a location where affairs of a business, commercial or industrial organization, or professional person or firm are conducted. General office building (Land Use 710) is a related use.

Additional Data

Time-of-day distribution data for this land use are presented in Appendix A. For the 18 general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 11:30 a.m. and 12:30 p.m. and 5:00 and 6:00 p.m., respectively.

The sites were surveyed in the 1980s and the 2010s in Alberta (CAN), Texas, and Wisconsin.

Source Numbers

890, 891, 959, 976

Land Use: 714
Corporate Headquarters Building

Description

A corporate headquarters building is a single tenant office building that houses the corporate headquarters of a company or organization, which generally consists of offices, meeting rooms, space for file storage and data processing, a restaurant or cafeteria and other service functions. General office building (Land Use 710), small office building (Land Use 712), single tenant office building (Land Use 715), office park (Land Use 750), research and development center (Land Use 760), and business park (Land Use 770) are related uses.

Additional Data

Time-of-day distribution data for this land use for a weekday, Saturday, and Sunday are presented in Appendix A. For the one center city core site with person trip data, the overall highest volumes during the AM and PM on a weekday were counted between 8:45 and 9:45 a.m. and 5:30 and 6:30 p.m., respectively.

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Connecticut, Georgia, Maryland, Minnesota, New Jersey, New York, Ohio, Oregon, Pennsylvania, Vermont, Virginia, and Washington.

Source Numbers

247, 251, 262, 273, 298, 302, 303, 304, 322, 323, 324, 327, 406, 444, 524, 552, 717, 862, 904

Land Use: 715
Single Tenant Office Building

Description

A single tenant office building generally contains offices, meeting rooms, and space for file storage and data processing of a single business or company and possibly other service functions including a restaurant or cafeteria. General office building (Land Use 710), small office building (Land Use 712), corporate headquarters building (Land Use 714), office park (Land Use 750), research and development center (Land Use 760), and business park (Land Use 770) are related uses.

Additional Data

The sites were surveyed in the 1980s, the 1990s, and the 2000s in California, Kansas, Maryland, Missouri, New Jersey, New York, Pennsylvania, and Virginia.

Source Numbers

212, 262, 273, 279, 303, 304, 322, 323, 324, 327, 407, 510, 701

Land Use: 750
Office Park

Description

An office park is usually a suburban subdivision or planned unit development containing general office buildings and support services, such as banks, restaurants, and service stations, arranged in a park- or campus-like atmosphere. General office building (Land Use 710), corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), research and development center (Land Use 760), and business park (Land Use 770) are related uses.

Additional Data

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), Connecticut, Georgia, Indiana, Massachusetts, New Jersey, New York, and Pennsylvania.

Source Numbers

160, 161, 184, 185, 253, 300, 301, 356, 550, 618, 912, 972, 973

Land Use: 760
Research and Development Center

Description

A research and development center is a facility or group of facilities devoted almost exclusively to research and development activities. The range of specific types of businesses contained in this land use category varies significantly. Research and development centers may contain offices and light fabrication areas. General office building (Land Use 710), corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), office park (Land Use 750), and business park (Land Use 770) are related uses.

Additional Data

The average numbers of person trips per vehicle trip at the 11 general urban/suburban sites at which both person trip and vehicle trip data were collected were as follows:

- 1.36 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 7 and 9 a.m.
- 1.36 during Weekday, AM Peak Hour of Generator
- 1.45 during Weekday, Peak Hour of Adjacent Street Traffic, one hour between 4 and 6 p.m.
- 1.43 during Weekday, PM Peak Hour of Generator

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Iowa, Maryland, Minnesota, Montana, and Pennsylvania.

Source Numbers

105, 157, 213, 218, 253, 332, 384, 423, 630, 723, 911, 973

Land Use: 770
Business Park

Description

A business park consists of a group of flex-type or incubator one- or two-story buildings served by a common roadway system. The tenant space is flexible and lends itself to a variety of uses; the rear side of the building is usually served by a garage door. Tenants may be start-up companies or small mature companies that require a variety of space. The space may include offices, retail and wholesale stores, restaurants, recreational areas and warehousing, manufacturing, light industrial, or scientific research functions. The average mix is 20 to 30 percent office/commercial and 70 to 80 percent industrial/warehousing. Industrial park (Land Use 130), warehousing (Land Use 150), general office building (Land Use 710), corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), office park (Land Use 750), and research and development center (Land Use 760) are related uses.

Additional Data

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Georgia, New Jersey, Oregon, Vermont, and Virginia.

Source Numbers

155, 211, 212, 213, 216, 407, 423, 715, 926

Attachment B

CalEEMod Reports

- CalEEMod Reports

Appendix A

CalEEMod Annual Emissions Report
Single Family Housing

POMONA VMT SCREENING ANALYSIS - SINGLE FAMILY RESIDENTIAL

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	150.00	Dwelling Unit	48.70	270,000.00	429

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 150 DU Single Family Housing. (Default lot acreage, building square feet and population).

Construction Phase - No Demolition. Construction phase adjusted to meet Project Opening Year 2022.

Grading -

Vehicle Trips - ITE Trip Generation, 10th Edition. Land Use 210 - Single Family Detached Housing.

Woodstoves - Per SCAQMD Rule 445, no wood burning devices are allowed into any new development. Assumes each DU will have a gas fireplace (150 units).

Energy Use -

POMONA VMT SCREENING ANALYSIS - SINGLE FAMILY RESIDENTIAL - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	50.00
tblConstructionPhase	NumDays	740.00	300.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	4/7/2025	12/26/2022
tblConstructionPhase	PhaseEndDate	11/4/2024	9/19/2022
tblConstructionPhase	PhaseEndDate	1/3/2022	7/26/2021
tblConstructionPhase	PhaseEndDate	1/20/2025	10/17/2022
tblConstructionPhase	PhaseEndDate	9/20/2021	6/28/2021
tblConstructionPhase	PhaseStartDate	1/21/2025	10/18/2022
tblConstructionPhase	PhaseStartDate	1/4/2022	7/27/2021
tblConstructionPhase	PhaseStartDate	9/21/2021	6/29/2021
tblConstructionPhase	PhaseStartDate	11/5/2024	9/20/2022
tblConstructionPhase	PhaseStartDate	8/10/2021	6/1/2021
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	127.50	150.00
tblFireplaces	NumberNoFireplace	15.00	0.00
tblFireplaces	NumberWood	7.50	0.00
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2069	1.9642	1.6203	3.1500e-003	0.3110	0.0954	0.4065	0.1470	0.0889	0.2359	0.0000	276.6412	276.6412	0.0627	0.0000	278.2081
2022	1.0459	1.7547	1.9404	3.7600e-003	0.0691	0.0837	0.1528	0.0186	0.0787	0.0973	0.0000	330.2445	330.2445	0.0621	0.0000	331.7976
Maximum	**1.0459**	**1.9642**	**1.9404**	**3.7600e-003**	**0.3110**	**0.0954**	**0.4065**	**0.1470**	**0.0889**	**0.2359**	**0.0000**	**330.2445**	**330.2445**	**0.0627**	**0.0000**	**331.7976**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2069	1.9642	1.6203	3.1500e-003	0.3110	0.0954	0.4065	0.1470	0.0889	0.2359	0.0000	276.6409	276.6409	0.0627	0.0000	278.2079
2022	1.0459	1.7547	1.9404	3.7600e-003	0.0691	0.0837	0.1528	0.0186	0.0787	0.0973	0.0000	330.2442	330.2442	0.0621	0.0000	331.7973
Maximum	**1.0459**	**1.9642**	**1.9404**	**3.7600e-003**	**0.3110**	**0.0954**	**0.4065**	**0.1470**	**0.0889**	**0.2359**	**0.0000**	**330.2442**	**330.2442**	**0.0627**	**0.0000**	**331.7973**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

POMONA VMT SCREENING ANALYSIS - SINGLE FAMILY RESIDENTIAL - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	1.2267	1.2267
2	9-1-2021	11-30-2021	0.6940	0.6940
3	12-1-2021	2-28-2022	0.6421	0.6421
4	3-1-2022	5-31-2022	0.6315	0.6315
5	6-1-2022	8-31-2022	0.6310	0.6310
6	9-1-2022	9-30-2022	0.1788	0.1788
		Highest	1.2267	1.2267

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1105	0.0490	1.5618	2.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	38.5474	38.5474	3.1300e-003	6.6000e-004	38.8224
Energy	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	612.2229	612.2229	0.0204	7.3800e-003	614.9332
Mobile	0.4356	2.2942	6.0121	0.0220	1.8145	0.0184	1.8329	0.4864	0.0171	0.5035	0.0000	2,027.4491	2,027.4491	0.1042	0.0000	2,030.0551
Waste						0.0000	0.0000		0.0000	0.0000	35.7041	0.0000	35.7041	2.1101	0.0000	88.4554
Water						0.0000	0.0000		0.0000	0.0000	3.1006	62.3567	65.4572	0.3210	8.0500e-003	75.8825
Total	**1.5684**	**2.5331**	**7.6547**	**0.0234**	**1.8145**	**0.0448**	**1.8593**	**0.4864**	**0.0435**	**0.5299**	**38.8046**	**2,740.5760**	**2,779.3807**	**2.5589**	**0.0161**	**2,848.1486**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1105	0.0490	1.5618	2.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	38.5474	38.5474	3.1300e-003	6.6000e-004	38.8224
Energy	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	612.2229	612.2229	0.0204	7.3800e-003	614.9332
Mobile	0.4356	2.2942	6.0121	0.0220	1.8145	0.0184	1.8329	0.4864	0.0171	0.5035	0.0000	2,027.4491	2,027.4491	0.1042	0.0000	2,030.0551
Waste						0.0000	0.0000		0.0000	0.0000	35.7041	0.0000	35.7041	2.1101	0.0000	88.4554
Water						0.0000	0.0000		0.0000	0.0000	3.1006	62.3567	65.4572	0.3210	8.0500e-003	75.8825
Total	**1.5684**	**2.5331**	**7.6547**	**0.0234**	**1.8145**	**0.0448**	**1.8593**	**0.4864**	**0.0435**	**0.5299**	**38.8046**	**2,740.5760**	**2,779.3807**	**2.5589**	**0.0161**	**2,848.1486**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - SINGLE FAMILY RESIDENTIAL - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/28/2021	5	20	
2	Grading	Grading	6/29/2021	7/26/2021	5	20	
3	Building Construction	Building Construction	7/27/2021	9/19/2022	5	300	
4	Paving	Paving	9/20/2022	10/17/2022	5	20	
5	Architectural Coating	Architectural Coating	10/18/2022	12/26/2022	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 546,750; Residential Outdoor: 182,250; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - SINGLE FAMILY RESIDENTIAL - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	54.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0419	0.4640	0.3088	6.2000e-004		0.0199	0.0199		0.0183	0.0183	0.0000	54.4950	54.4950	0.0176	0.0000	54.9356
Total	**0.0419**	**0.4640**	**0.3088**	**6.2000e-004**	**0.0867**	**0.0199**	**0.1066**	**0.0360**	**0.0183**	**0.0542**	**0.0000**	**54.4950**	**54.4950**	**0.0176**	**0.0000**	**54.9356**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.7000e-004	7.5600e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	1.9778	1.9778	6.0000e-005	0.0000	1.9793
Total	**8.6000e-004**	**6.7000e-004**	**7.5600e-003**	**2.0000e-005**	**2.1900e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**1.9778**	**1.9778**	**6.0000e-005**	**0.0000**	**1.9793**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0419	0.4640	0.3088	6.2000e-004		0.0199	0.0199		0.0183	0.0183	0.0000	54.4949	54.4949	0.0176	0.0000	54.9355
Total	**0.0419**	**0.4640**	**0.3088**	**6.2000e-004**	**0.0867**	**0.0199**	**0.1066**	**0.0360**	**0.0183**	**0.0542**	**0.0000**	**54.4949**	**54.4949**	**0.0176**	**0.0000**	**54.9355**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	6.7000e-004	7.5600e-003	2.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	1.9778	1.9778	6.0000e-005	0.0000	1.9793
Total	**8.6000e-004**	**6.7000e-004**	**7.5600e-003**	**2.0000e-005**	**2.1900e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**1.9778**	**1.9778**	**6.0000e-005**	**0.0000**	**1.9793**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.9936	0.9448	1.5300e-003		0.0546	0.0546		0.0514	0.0514	0.0000	132.0333	132.0333	0.0319	0.0000	132.8296
Total	**0.1084**	**0.9936**	**0.9448**	**1.5300e-003**		**0.0546**	**0.0546**		**0.0514**	**0.0514**	**0.0000**	**132.0333**	**132.0333**	**0.0319**	**0.0000**	**132.8296**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8300e-003	0.0900	0.0244	2.3000e-004	5.7400e-003	1.8000e-004	5.9300e-003	1.6600e-003	1.8000e-004	1.8300e-003	0.0000	22.4805	22.4805	1.3800e-003	0.0000	22.5150
Worker	0.0132	0.0103	0.1164	3.4000e-004	0.0337	2.8000e-004	0.0340	8.9600e-003	2.6000e-004	9.2100e-003	0.0000	30.4389	30.4389	9.0000e-004	0.0000	30.4613
Total	**0.0161**	**0.1003**	**0.1408**	**5.7000e-004**	**0.0395**	**4.6000e-004**	**0.0399**	**0.0106**	**4.4000e-004**	**0.0110**	**0.0000**	**52.9194**	**52.9194**	**2.2800e-003**	**0.0000**	**52.9762**

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.9936	0.9448	1.5300e-003		0.0546	0.0546		0.0514	0.0514	0.0000	132.0331	132.0331	0.0319	0.0000	132.8294
Total	**0.1084**	**0.9936**	**0.9448**	**1.5300e-003**		**0.0546**	**0.0546**		**0.0514**	**0.0514**	**0.0000**	**132.0331**	**132.0331**	**0.0319**	**0.0000**	**132.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8300e-003	0.0900	0.0244	2.3000e-004	5.7400e-003	1.8000e-004	5.9300e-003	1.6600e-003	1.8000e-004	1.8300e-003	0.0000	22.4805	22.4805	1.3800e-003	0.0000	22.5150
Worker	0.0132	0.0103	0.1164	3.4000e-004	0.0337	2.8000e-004	0.0340	8.9600e-003	2.6000e-004	9.2100e-003	0.0000	30.4389	30.4389	9.0000e-004	0.0000	30.4613
Total	**0.0161**	**0.1003**	**0.1408**	**5.7000e-004**	**0.0395**	**4.6000e-004**	**0.0399**	**0.0106**	**4.4000e-004**	**0.0110**	**0.0000**	**52.9194**	**52.9194**	**2.2800e-003**	**0.0000**	**52.9762**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1587	1.4523	1.5218	2.5000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	215.5045	215.5045	0.0516	0.0000	216.7952
Total	**0.1587**	**1.4523**	**1.5218**	**2.5000e-003**		**0.0752**	**0.0752**		**0.0708**	**0.0708**	**0.0000**	**215.5045**	**215.5045**	**0.0516**	**0.0000**	**216.7952**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3400e-003	0.1395	0.0377	3.7000e-004	9.3700e-003	2.6000e-004	9.6400e-003	2.7100e-003	2.5000e-004	2.9600e-003	0.0000	36.3565	36.3565	2.1700e-003	0.0000	36.4108
Worker	0.0203	0.0152	0.1750	5.3000e-004	0.0550	4.4000e-004	0.0555	0.0146	4.0000e-004	0.0150	0.0000	47.9177	47.9177	1.3200e-003	0.0000	47.9506
Total	**0.0246**	**0.1547**	**0.2127**	**9.0000e-004**	**0.0644**	**7.0000e-004**	**0.0651**	**0.0173**	**6.5000e-004**	**0.0180**	**0.0000**	**84.2742**	**84.2742**	**3.4900e-003**	**0.0000**	**84.3615**

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1587	1.4523	1.5218	2.5000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	215.5042	215.5042	0.0516	0.0000	216.7949
Total	**0.1587**	**1.4523**	**1.5218**	**2.5000e-003**		**0.0752**	**0.0752**		**0.0708**	**0.0708**	**0.0000**	**215.5042**	**215.5042**	**0.0516**	**0.0000**	**216.7949**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3400e-003	0.1395	0.0377	3.7000e-004	9.3700e-003	2.6000e-004	9.6400e-003	2.7100e-003	2.5000e-004	2.9600e-003	0.0000	36.3565	36.3565	2.1700e-003	0.0000	36.4108
Worker	0.0203	0.0152	0.1750	5.3000e-004	0.0550	4.4000e-004	0.0555	0.0146	4.0000e-004	0.0150	0.0000	47.9177	47.9177	1.3200e-003	0.0000	47.9506
Total	**0.0246**	**0.1547**	**0.2127**	**9.0000e-004**	**0.0644**	**7.0000e-004**	**0.0651**	**0.0173**	**6.5000e-004**	**0.0180**	**0.0000**	**84.2742**	**84.2742**	**3.4900e-003**	**0.0000**	**84.3615**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1100e-003	0.0352	0.0453	7.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	6.3831	6.3831	4.2000e-004	0.0000	6.3935
Total	**0.8498**	**0.0352**	**0.0453**	**7.0000e-005**		**2.0400e-003**	**2.0400e-003**		**2.0400e-003**	**2.0400e-003**	**0.0000**	**6.3831**	**6.3831**	**4.2000e-004**	**0.0000**	**6.3935**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1100e-003	8.3000e-004	9.5800e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0400e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6239	2.6239	7.0000e-005	0.0000	2.6257
Total	**1.1100e-003**	**8.3000e-004**	**9.5800e-003**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0400e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.6239**	**2.6239**	**7.0000e-005**	**0.0000**	**2.6257**

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8447					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1100e-003	0.0352	0.0453	7.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	6.3831	6.3831	4.2000e-004	0.0000	6.3935
Total	**0.8498**	**0.0352**	**0.0453**	**7.0000e-005**		**2.0400e-003**	**2.0400e-003**		**2.0400e-003**	**2.0400e-003**	**0.0000**	**6.3831**	**6.3831**	**4.2000e-004**	**0.0000**	**6.3935**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1100e-003	8.3000e-004	9.5800e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0400e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.6239	2.6239	7.0000e-005	0.0000	2.6257
Total	**1.1100e-003**	**8.3000e-004**	**9.5800e-003**	**3.0000e-005**	**3.0100e-003**	**2.0000e-005**	**3.0400e-003**	**8.0000e-004**	**2.0000e-005**	**8.2000e-004**	**0.0000**	**2.6239**	**2.6239**	**7.0000e-005**	**0.0000**	**2.6257**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4356	2.2942	6.0121	0.0220	1.8145	0.0184	1.8329	0.4864	0.0171	0.5035	0.0000	2,027.4491	2,027.4491	0.1042	0.0000	2,030.0551
Unmitigated	0.4356	2.2942	6.0121	0.0220	1.8145	0.0184	1.8329	0.4864	0.0171	0.5035	0.0000	2,027.4491	2,027.4491	0.1042	0.0000	2,030.0551

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,416.00	1,431.00	1282.50	4,780,840	4,780,840
Total	1,416.00	1,431.00	1,282.50	4,780,840	4,780,840

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	392.3006	392.3006	0.0162	3.3500e-003	393.7040
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	392.3006	392.3006	0.0162	3.3500e-003	393.7040
NaturalGas Mitigated	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	219.9223	219.9223	4.2200e-003	4.0300e-003	221.2292
NaturalGas Unmitigated	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	219.9223	219.9223	4.2200e-003	4.0300e-003	221.2292

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	4.12119e+006	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	219.9223	219.9223	4.2200e-003	4.0300e-003	221.2292
Total		**0.0222**	**0.1899**	**0.0808**	**1.2100e-003**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**219.9223**	**219.9223**	**4.2200e-003**	**4.0300e-003**	**221.2292**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	4.12119e+006	0.0222	0.1899	0.0808	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	219.9223	219.9223	4.2200e-003	4.0300e-003	221.2292
Total		**0.0222**	**0.1899**	**0.0808**	**1.2100e-003**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**219.9223**	**219.9223**	**4.2200e-003**	**4.0300e-003**	**221.2292**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.23124e+006	392.3006	0.0162	3.3500e-003	393.7040
Total		**392.3006**	**0.0162**	**3.3500e-003**	**393.7040**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.23124e+006	392.3006	0.0162	3.3500e-003	393.7040
Total		**392.3006**	**0.0162**	**3.3500e-003**	**393.7040**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1105	0.0490	1.5618	2.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	38.5474	38.5474	3.1300e-003	6.6000e-004	38.8224
Unmitigated	1.1105	0.0490	1.5618	2.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	38.5474	38.5474	3.1300e-003	6.6000e-004	38.8224

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.6400e-003	0.0311	0.0132	2.0000e-004		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	36.0206	36.0206	6.9000e-004	6.6000e-004	36.2346
Landscaping	0.0468	0.0179	1.5486	8.0000e-005		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003	0.0000	2.5268	2.5268	2.4400e-003	0.0000	2.5878
Total	**1.1105**	**0.0490**	**1.5618**	**2.8000e-004**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**38.5474**	**38.5474**	**3.1300e-003**	**6.6000e-004**	**38.8224**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9757					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.6400e-003	0.0311	0.0132	2.0000e-004		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	36.0206	36.0206	6.9000e-004	6.6000e-004	36.2346
Landscaping	0.0468	0.0179	1.5486	8.0000e-005		8.5600e-003	8.5600e-003		8.5600e-003	8.5600e-003	0.0000	2.5268	2.5268	2.4400e-003	0.0000	2.5878
Total	**1.1105**	**0.0490**	**1.5618**	**2.8000e-004**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**38.5474**	**38.5474**	**3.1300e-003**	**6.6000e-004**	**38.8224**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	65.4572	0.3210	8.0500e-003	75.8825
Unmitigated	65.4572	0.3210	8.0500e-003	75.8825

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	9.7731 / 6.1613	65.4572	0.3210	8.0500e-003	75.8825
Total		**65.4572**	**0.3210**	**8.0500e-003**	**75.8825**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	9.7731 / 6.1613	65.4572	0.3210	8.0500e-003	75.8825
Total		**65.4572**	**0.3210**	**8.0500e-003**	**75.8825**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	35.7041	2.1101	0.0000	88.4554
Unmitigated	35.7041	2.1101	0.0000	88.4554

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	175.89	35.7041	2.1101	0.0000	88.4554
Total		**35.7041**	**2.1101**	**0.0000**	**88.4554**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	175.89	35.7041	2.1101	0.0000	88.4554
Total		**35.7041**	**2.1101**	**0.0000**	**88.4554**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

CalEEMod Annual Emissions Report
Condos/Townhomes

POMONA VMT SCREENING ANALYSIS - CONDO/TOWNHOUSE

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	200.00	Dwelling Unit	12.50	200,000.00	572

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 200 DU Condo/Townhouse. (Default lot acreage, building square feet and population).

Construction Phase - No Demolition. CalEEMod Default.

Vehicle Trips - ITE Trip Generation, 10th Edition. Land Use 220 - Multifamily Housing (Low-Rise).

Woodstoves - Per SCAQMD Rule 445, no wood burning devices are allowed into any new development. Assumes each DU will have a gas fireplace (200 units).

Energy Use -

POMONA VMT SCREENING ANALYSIS - CONDO/TOWNHOUSE - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	12/12/2022	11/14/2022
tblConstructionPhase	PhaseEndDate	10/17/2022	9/19/2022
tblConstructionPhase	PhaseEndDate	8/23/2021	7/26/2021
tblConstructionPhase	PhaseEndDate	11/14/2022	10/17/2022
tblConstructionPhase	PhaseEndDate	7/12/2021	6/14/2021
tblConstructionPhase	PhaseStartDate	11/15/2022	10/18/2022
tblConstructionPhase	PhaseStartDate	8/24/2021	7/27/2021
tblConstructionPhase	PhaseStartDate	7/13/2021	6/15/2021
tblConstructionPhase	PhaseStartDate	10/18/2022	9/20/2022
tblConstructionPhase	PhaseStartDate	6/29/2021	6/1/2021
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	170.00	200.00
tblFireplaces	NumberNoFireplace	20.00	0.00
tblFireplaces	NumberWood	10.00	0.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.32
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2314	2.0391	1.8709	3.9000e-003	0.3222	0.0957	0.4179	0.1308	0.0891	0.2199	0.0000	345.0263	345.0263	0.0680	0.0000	346.7266
2022	0.8590	1.8026	2.2171	4.7100e-003	0.1639	0.0833	0.2472	0.0438	0.0783	0.1221	0.0000	417.7819	417.7819	0.0648	0.0000	419.4009
Maximum	**0.8590**	**2.0391**	**2.2171**	**4.7100e-003**	**0.3222**	**0.0957**	**0.4179**	**0.1308**	**0.0891**	**0.2199**	**0.0000**	**417.7819**	**417.7819**	**0.0680**	**0.0000**	**419.4009**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2314	2.0390	1.8709	3.9000e-003	0.3222	0.0957	0.4179	0.1308	0.0891	0.2199	0.0000	345.0260	345.0260	0.0680	0.0000	346.7263
2022	0.8590	1.8026	2.2171	4.7100e-003	0.1639	0.0833	0.2472	0.0438	0.0783	0.1221	0.0000	417.7816	417.7816	0.0648	0.0000	419.4006
Maximum	**0.8590**	**2.0390**	**2.2171**	**4.7100e-003**	**0.3222**	**0.0957**	**0.4179**	**0.1308**	**0.0891**	**0.2199**	**0.0000**	**417.7816**	**417.7816**	**0.0680**	**0.0000**	**419.4006**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

POMONA VMT SCREENING ANALYSIS - CONDO/TOWNHOUSE - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	1.2726	1.2726
2	9-1-2021	11-30-2021	0.7330	0.7330
3	12-1-2021	2-28-2022	0.6797	0.6797
4	3-1-2022	5-31-2022	0.6676	0.6676
5	6-1-2022	8-31-2022	0.6664	0.6664
6	9-1-2022	9-30-2022	0.1861	0.1861
		Highest	1.2726	1.2726

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8525	0.0653	2.0824	3.7000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	51.3965	51.3965	4.1700e-003	8.8000e-004	51.7632
Energy	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	504.4879	504.4879	0.0168	6.1000e-003	506.7263
Mobile	0.4539	2.3904	6.2641	0.0229	1.8906	0.0191	1.9097	0.5068	0.0178	0.5246	0.0000	2,112.4308	2,112.4308	0.1086	0.0000	2,115.1460
Waste						0.0000	0.0000		0.0000	0.0000	18.6752	0.0000	18.6752	1.1037	0.0000	46.2669
Water						0.0000	0.0000		0.0000	0.0000	4.1341	83.1422	87.2763	0.4280	0.0107	101.1767
Total	**1.3249**	**2.6139**	**8.4139**	**0.0243**	**1.8906**	**0.0467**	**1.9373**	**0.5068**	**0.0454**	**0.5522**	**22.8092**	**2,751.4574**	**2,774.2667**	**1.6613**	**0.0177**	**2,821.0791**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8525	0.0653	2.0824	3.7000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	51.3965	51.3965	4.1700e-003	8.8000e-004	51.7632
Energy	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	504.4879	504.4879	0.0168	6.1000e-003	506.7263
Mobile	0.4539	2.3904	6.2641	0.0229	1.8906	0.0191	1.9097	0.5068	0.0178	0.5246	0.0000	2,112.4308	2,112.4308	0.1086	0.0000	2,115.1460
Waste						0.0000	0.0000		0.0000	0.0000	18.6752	0.0000	18.6752	1.1037	0.0000	46.2669
Water						0.0000	0.0000		0.0000	0.0000	4.1341	83.1422	87.2763	0.4280	0.0107	101.1767
Total	**1.3249**	**2.6139**	**8.4139**	**0.0243**	**1.8906**	**0.0467**	**1.9373**	**0.5068**	**0.0454**	**0.5522**	**22.8092**	**2,751.4574**	**2,774.2667**	**1.6613**	**0.0177**	**2,821.0791**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - CONDO/TOWNHOUSE - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/14/2021	5	10	
2	Grading	Grading	6/15/2021	7/26/2021	5	30	
3	Building Construction	Building Construction	7/27/2021	9/19/2022	5	300	
4	Paving	Paving	9/20/2022	10/17/2022	5	20	
5	Architectural Coating	Architectural Coating	10/18/2022	11/14/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 405,000; Residential Outdoor: 135,000; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - CONDO/TOWNHOUSE - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	144.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**3.9000e-004**	**3.0000e-004**	**3.4000e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8900**	**0.8900**	**3.0000e-005**	**0.0000**	**0.8907**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	**3.9000e-004**	**3.0000e-004**	**3.4000e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8900**	**0.8900**	**3.0000e-005**	**0.0000**	**0.8907**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1301**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7425**	**81.7425**	**0.0264**	**0.0000**	**82.4034**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	**0.0629**	**0.6960**	**0.4632**	**9.3000e-004**	**0.1301**	**0.0298**	**0.1599**	**0.0540**	**0.0274**	**0.0814**	**0.0000**	**81.7424**	**81.7424**	**0.0264**	**0.0000**	**82.4033**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	**1.2900e-003**	**1.0000e-003**	**0.0113**	**3.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3100e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9668**	**2.9668**	**9.0000e-005**	**0.0000**	**2.9689**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.9936	0.9448	1.5300e-003		0.0546	0.0546		0.0514	0.0514	0.0000	132.0333	132.0333	0.0319	0.0000	132.8296
Total	**0.1084**	**0.9936**	**0.9448**	**1.5300e-003**		**0.0546**	**0.0546**		**0.0514**	**0.0514**	**0.0000**	**132.0333**	**132.0333**	**0.0319**	**0.0000**	**132.8296**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1181	0.0320	3.0000e-004	7.5400e-003	2.4000e-004	7.7800e-003	2.1800e-003	2.3000e-004	2.4100e-003	0.0000	29.5056	29.5056	1.8100e-003	0.0000	29.5509
Worker	0.0353	0.0275	0.3104	9.0000e-004	0.0899	7.4000e-004	0.0907	0.0239	6.8000e-004	0.0246	0.0000	81.1703	81.1703	2.3900e-003	0.0000	81.2300
Total	**0.0390**	**0.1456**	**0.3424**	**1.2000e-003**	**0.0975**	**9.8000e-004**	**0.0985**	**0.0261**	**9.1000e-004**	**0.0270**	**0.0000**	**110.6760**	**110.6760**	**4.2000e-003**	**0.0000**	**110.7809**

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.9936	0.9448	1.5300e-003		0.0546	0.0546		0.0514	0.0514	0.0000	132.0331	132.0331	0.0319	0.0000	132.8294
Total	**0.1084**	**0.9936**	**0.9448**	**1.5300e-003**		**0.0546**	**0.0546**		**0.0514**	**0.0514**	**0.0000**	**132.0331**	**132.0331**	**0.0319**	**0.0000**	**132.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7200e-003	0.1181	0.0320	3.0000e-004	7.5400e-003	2.4000e-004	7.7800e-003	2.1800e-003	2.3000e-004	2.4100e-003	0.0000	29.5056	29.5056	1.8100e-003	0.0000	29.5509
Worker	0.0353	0.0275	0.3104	9.0000e-004	0.0899	7.4000e-004	0.0907	0.0239	6.8000e-004	0.0246	0.0000	81.1703	81.1703	2.3900e-003	0.0000	81.2300
Total	**0.0390**	**0.1456**	**0.3424**	**1.2000e-003**	**0.0975**	**9.8000e-004**	**0.0985**	**0.0261**	**9.1000e-004**	**0.0270**	**0.0000**	**110.6760**	**110.6760**	**4.2000e-003**	**0.0000**	**110.7809**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1587	1.4523	1.5218	2.5000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	215.5045	215.5045	0.0516	0.0000	216.7952
Total	**0.1587**	**1.4523**	**1.5218**	**2.5000e-003**		**0.0752**	**0.0752**		**0.0708**	**0.0708**	**0.0000**	**215.5045**	**215.5045**	**0.0516**	**0.0000**	**216.7952**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6900e-003	0.1831	0.0494	4.9000e-004	0.0123	3.4000e-004	0.0127	3.5500e-003	3.3000e-004	3.8800e-003	0.0000	47.7180	47.7180	2.8500e-003	0.0000	47.7892
Worker	0.0540	0.0405	0.4666	1.4100e-003	0.1468	1.1700e-003	0.1479	0.0390	1.0800e-003	0.0401	0.0000	127.7804	127.7804	3.5200e-003	0.0000	127.8684
Total	**0.0597**	**0.2236**	**0.5161**	**1.9000e-003**	**0.1591**	**1.5100e-003**	**0.1606**	**0.0425**	**1.4100e-003**	**0.0439**	**0.0000**	**175.4984**	**175.4984**	**6.3700e-003**	**0.0000**	**175.6576**

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1587	1.4523	1.5218	2.5000e-003		0.0752	0.0752		0.0708	0.0708	0.0000	215.5042	215.5042	0.0516	0.0000	216.7949
Total	**0.1587**	**1.4523**	**1.5218**	**2.5000e-003**		**0.0752**	**0.0752**		**0.0708**	**0.0708**	**0.0000**	**215.5042**	**215.5042**	**0.0516**	**0.0000**	**216.7949**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.6900e-003	0.1831	0.0494	4.9000e-004	0.0123	3.4000e-004	0.0127	3.5500e-003	3.3000e-004	3.8800e-003	0.0000	47.7180	47.7180	2.8500e-003	0.0000	47.7892
Worker	0.0540	0.0405	0.4666	1.4100e-003	0.1468	1.1700e-003	0.1479	0.0390	1.0800e-003	0.0401	0.0000	127.7804	127.7804	3.5200e-003	0.0000	127.8684
Total	**0.0597**	**0.2236**	**0.5161**	**1.9000e-003**	**0.1591**	**1.5100e-003**	**0.1606**	**0.0425**	**1.4100e-003**	**0.0439**	**0.0000**	**175.4984**	**175.4984**	**6.3700e-003**	**0.0000**	**175.6576**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	4.5000e-004	5.2300e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4312	1.4312	4.0000e-005	0.0000	1.4322
Total	**6.1000e-004**	**4.5000e-004**	**5.2300e-003**	**2.0000e-005**	**1.6400e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4312**	**1.4312**	**4.0000e-005**	**0.0000**	**1.4322**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.6278**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	8.8000e-004	0.0101	3.0000e-005	3.1800e-003	3.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.7671	2.7671	8.0000e-005	0.0000	2.7690
Total	**1.1700e-003**	**8.8000e-004**	**0.0101**	**3.0000e-005**	**3.1800e-003**	**3.0000e-005**	**3.2000e-003**	**8.4000e-004**	**2.0000e-005**	**8.7000e-004**	**0.0000**	**2.7671**	**2.7671**	**8.0000e-005**	**0.0000**	**2.7690**

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.6278**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	8.8000e-004	0.0101	3.0000e-005	3.1800e-003	3.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.7671	2.7671	8.0000e-005	0.0000	2.7690
Total	**1.1700e-003**	**8.8000e-004**	**0.0101**	**3.0000e-005**	**3.1800e-003**	**3.0000e-005**	**3.2000e-003**	**8.4000e-004**	**2.0000e-005**	**8.7000e-004**	**0.0000**	**2.7671**	**2.7671**	**8.0000e-005**	**0.0000**	**2.7690**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4539	2.3904	6.2641	0.0229	1.8906	0.0191	1.9097	0.5068	0.0178	0.5246	0.0000	2,112.4308	2,112.4308	0.1086	0.0000	2,115.1460
Unmitigated	0.4539	2.3904	6.2641	0.0229	1.8906	0.0191	1.9097	0.5068	0.0178	0.5246	0.0000	2,112.4308	2,112.4308	0.1086	0.0000	2,115.1460

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,464.00	1,628.00	1256.00	4,981,231	4,981,231
Total	1,464.00	1,628.00	1,256.00	4,981,231	4,981,231

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	321.1666	321.1666	0.0133	2.7400e-003	322.3156
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	321.1666	321.1666	0.0133	2.7400e-003	322.3156
NaturalGas Mitigated	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.3213	183.3213	3.5100e-003	3.3600e-003	184.4107
NaturalGas Unmitigated	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.3213	183.3213	3.5100e-003	3.3600e-003	184.4107

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	3.43531e+006	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.3213	183.3213	3.5100e-003	3.3600e-003	184.4107
Total		**0.0185**	**0.1583**	**0.0674**	**1.0100e-003**		**0.0128**	**0.0128**		**0.0128**	**0.0128**	**0.0000**	**183.3213**	**183.3213**	**3.5100e-003**	**3.3600e-003**	**184.4107**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	3.43531e+006	0.0185	0.1583	0.0674	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.3213	183.3213	3.5100e-003	3.3600e-003	184.4107
Total		**0.0185**	**0.1583**	**0.0674**	**1.0100e-003**		**0.0128**	**0.0128**		**0.0128**	**0.0128**	**0.0000**	**183.3213**	**183.3213**	**3.5100e-003**	**3.3600e-003**	**184.4107**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.00799e+006	321.1666	0.0133	2.7400e-003	322.3156
Total		**321.1666**	**0.0133**	**2.7400e-003**	**322.3156**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.00799e+006	321.1666	0.0133	2.7400e-003	322.3156
Total		**321.1666**	**0.0133**	**2.7400e-003**	**322.3156**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8525	0.0653	2.0824	3.7000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	51.3965	51.3965	4.1700e-003	8.8000e-004	51.7632
Unmitigated	0.8525	0.0653	2.0824	3.7000e-004		0.0148	0.0148		0.0148	0.0148	0.0000	51.3965	51.3965	4.1700e-003	8.8000e-004	51.7632

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.8500e-003	0.0415	0.0177	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	48.0274	48.0274	9.2000e-004	8.8000e-004	48.3128
Landscaping	0.0624	0.0238	2.0648	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2500e-003	0.0000	3.4504
Total	**0.8525**	**0.0653**	**2.0824**	**3.7000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**0.0000**	**51.3965**	**51.3965**	**4.1700e-003**	**8.8000e-004**	**51.7632**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0626					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7227					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.8500e-003	0.0415	0.0177	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	48.0274	48.0274	9.2000e-004	8.8000e-004	48.3128
Landscaping	0.0624	0.0238	2.0648	1.1000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	3.3691	3.3691	3.2500e-003	0.0000	3.4504
Total	**0.8525**	**0.0653**	**2.0824**	**3.7000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**0.0000**	**51.3965**	**51.3965**	**4.1700e-003**	**8.8000e-004**	**51.7632**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	87.2763	0.4280	0.0107	101.1767
Unmitigated	87.2763	0.4280	0.0107	101.1767

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.0308 / 8.21507	87.2763	0.4280	0.0107	101.1767
Total		**87.2763**	**0.4280**	**0.0107**	**101.1767**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.0308 / 8.21507	87.2763	0.4280	0.0107	101.1767
Total		**87.2763**	**0.4280**	**0.0107**	**101.1767**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.6752	1.1037	0.0000	46.2669
Unmitigated	18.6752	1.1037	0.0000	46.2669

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	92	18.6752	1.1037	0.0000	46.2669
Total		**18.6752**	**1.1037**	**0.0000**	**46.2669**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	92	18.6752	1.1037	0.0000	46.2669
Total		**18.6752**	**1.1037**	**0.0000**	**46.2669**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix C

CalEEMod Annual Emissions Report
General Office Building
(Alternative 1)

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	80.00	1000sqft	1.84	80,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 80 TSF General Office Building.

Construction Phase - No Demolition. CalEEMod Default.

Vehicle Trips - ITE Trip Generation, 10th Edition. Land Use 710 - General Office Building.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1496	1.1566	1.0742	2.1300e-003	0.0430	0.0531	0.0961	0.0154	0.0511	0.0666	0.0000	181.3109	181.3109	0.0273	0.0000	181.9933
2022	0.4222	0.4000	0.4192	8.2000e-004	0.0105	0.0176	0.0281	2.8400e-003	0.0169	0.0198	0.0000	69.9387	69.9387	0.0109	0.0000	70.2103
Maximum	**0.4222**	**1.1566**	**1.0742**	**2.1300e-003**	**0.0430**	**0.0531**	**0.0961**	**0.0154**	**0.0511**	**0.0666**	**0.0000**	**181.3109**	**181.3109**	**0.0273**	**0.0000**	**181.9933**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1496	1.1566	1.0742	2.1300e-003	0.0430	0.0531	0.0961	0.0154	0.0511	0.0666	0.0000	181.3107	181.3107	0.0273	0.0000	181.9931
2022	0.4222	0.4000	0.4192	8.2000e-004	0.0105	0.0176	0.0281	2.8400e-003	0.0169	0.0198	0.0000	69.9386	69.9386	0.0109	0.0000	70.2103
Maximum	**0.4222**	**1.1566**	**1.0742**	**2.1300e-003**	**0.0430**	**0.0531**	**0.0961**	**0.0154**	**0.0511**	**0.0666**	**0.0000**	**181.3107**	**181.3107**	**0.0273**	**0.0000**	**181.9931**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.5553	0.5553
2	9-1-2021	11-30-2021	0.5509	0.5509
3	12-1-2021	2-28-2022	0.5161	0.5161
4	3-1-2022	5-31-2022	0.5003	0.5003
		Highest	0.5553	0.5553

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3263	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	375.5528	375.5528	0.0145	3.6400e-003	377.0014
Mobile	0.1787	0.9336	2.4137	8.7500e-003	0.7212	7.3300e-003	0.7285	0.1933	6.8400e-003	0.2002	0.0000	808.4168	808.4168	0.0418	0.0000	809.4621
Waste						0.0000	0.0000		0.0000	0.0000	15.1025	0.0000	15.1025	0.8925	0.0000	37.4159
Water						0.0000	0.0000		0.0000	0.0000	4.5109	89.8391	94.3500	0.4670	0.0117	109.5144
Total	**0.5094**	**0.9744**	**2.4490**	**8.9900e-003**	**0.7212**	**0.0104**	**0.7316**	**0.1933**	**9.9400e-003**	**0.2033**	**19.6135**	**1,273.8106**	**1,293.4241**	**1.4159**	**0.0154**	**1,333.3960**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3263	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003
Energy	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	375.5528	375.5528	0.0145	3.6400e-003	377.0014
Mobile	0.1787	0.9336	2.4137	8.7500e-003	0.7212	7.3300e-003	0.7285	0.1933	6.8400e-003	0.2002	0.0000	808.4168	808.4168	0.0418	0.0000	809.4621
Waste						0.0000	0.0000		0.0000	0.0000	15.1025	0.0000	15.1025	0.8925	0.0000	37.4159
Water						0.0000	0.0000		0.0000	0.0000	4.5109	89.8391	94.3500	0.4670	0.0117	109.5144
Total	**0.5094**	**0.9744**	**2.4490**	**8.9900e-003**	**0.7212**	**0.0104**	**0.7316**	**0.1933**	**9.9400e-003**	**0.2033**	**19.6135**	**1,273.8106**	**1,293.4241**	**1.4159**	**0.0154**	**1,333.3960**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/2/2021	5	2	
2	Grading	Grading	6/3/2021	6/8/2021	5	4	
3	Building Construction	Building Construction	6/9/2021	3/15/2022	5	200	
4	Paving	Paving	3/16/2022	3/29/2022	5	10	
5	Architectural Coating	Architectural Coating	3/30/2022	4/12/2022	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 120,000; Non-Residential Outdoor: 40,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	26.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	**1.5600e-003**	**0.0174**	**7.5600e-003**	**2.0000e-005**	**5.8000e-003**	**7.7000e-004**	**6.5700e-003**	**2.9500e-003**	**7.0000e-004**	**3.6500e-003**	**0.0000**	**1.5118**	**1.5118**	**4.9000e-004**	**0.0000**	**1.5241**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0791	0.0791	0.0000	0.0000	0.0792
Total	**3.0000e-005**	**3.0000e-005**	**3.0000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0791**	**0.0791**	**0.0000**	**0.0000**	**0.0792**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	**1.5600e-003**	**0.0174**	**7.5600e-003**	**2.0000e-005**	**5.8000e-003**	**7.7000e-004**	**6.5700e-003**	**2.9500e-003**	**7.0000e-004**	**3.6500e-003**	**0.0000**	**1.5118**	**1.5118**	**4.9000e-004**	**0.0000**	**1.5241**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0791	0.0791	0.0000	0.0000	0.0792
Total	**3.0000e-005**	**3.0000e-005**	**3.0000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0791**	**0.0791**	**0.0000**	**0.0000**	**0.0792**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0287	0.0127	3.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	2.4767	2.4767	8.0000e-004	0.0000	2.4968
Total	**2.5800e-003**	**0.0287**	**0.0127**	**3.0000e-005**	**9.8300e-003**	**1.2800e-003**	**0.0111**	**5.0500e-003**	**1.1700e-003**	**6.2200e-003**	**0.0000**	**2.4767**	**2.4767**	**8.0000e-004**	**0.0000**	**2.4968**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1582	0.1582	0.0000	0.0000	0.1583
Total	**7.0000e-005**	**5.0000e-005**	**6.1000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1582**	**0.1582**	**0.0000**	**0.0000**	**0.1583**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0287	0.0127	3.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	2.4767	2.4767	8.0000e-004	0.0000	2.4968
Total	**2.5800e-003**	**0.0287**	**0.0127**	**3.0000e-005**	**9.8300e-003**	**1.2800e-003**	**0.0111**	**5.0500e-003**	**1.1700e-003**	**6.2200e-003**	**0.0000**	**2.4767**	**2.4767**	**8.0000e-004**	**0.0000**	**2.4968**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	6.1000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1582	0.1582	0.0000	0.0000	0.1583
Total	**7.0000e-005**	**5.0000e-005**	**6.1000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1582**	**0.1582**	**0.0000**	**0.0000**	**0.1583**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1341	1.0091	0.9546	1.6300e-003		0.0506	0.0506		0.0489	0.0489	0.0000	134.3452	134.3452	0.0240	0.0000	134.9448
Total	**0.1341**	**1.0091**	**0.9546**	**1.6300e-003**		**0.0506**	**0.0506**		**0.0489**	**0.0489**	**0.0000**	**134.3452**	**134.3452**	**0.0240**	**0.0000**	**134.9448**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.0949	0.0257	2.4000e-004	6.0600e-003	1.9000e-004	6.2500e-003	1.7500e-003	1.9000e-004	1.9300e-003	0.0000	23.7130	23.7130	1.4500e-003	0.0000	23.7493
Worker	8.2800e-003	6.4500e-003	0.0728	2.1000e-004	0.0211	1.7000e-004	0.0213	5.6000e-003	1.6000e-004	5.7600e-003	0.0000	19.0268	19.0268	5.6000e-004	0.0000	19.0408
Total	**0.0113**	**0.1014**	**0.0985**	**4.5000e-004**	**0.0271**	**3.6000e-004**	**0.0275**	**7.3500e-003**	**3.5000e-004**	**7.6900e-003**	**0.0000**	**42.7397**	**42.7397**	**2.0100e-003**	**0.0000**	**42.7901**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1341	1.0091	0.9546	1.6300e-003		0.0506	0.0506		0.0489	0.0489	0.0000	134.3451	134.3451	0.0240	0.0000	134.9447
Total	**0.1341**	**1.0091**	**0.9546**	**1.6300e-003**		**0.0506**	**0.0506**		**0.0489**	**0.0489**	**0.0000**	**134.3451**	**134.3451**	**0.0240**	**0.0000**	**134.9447**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.0949	0.0257	2.4000e-004	6.0600e-003	1.9000e-004	6.2500e-003	1.7500e-003	1.9000e-004	1.9300e-003	0.0000	23.7130	23.7130	1.4500e-003	0.0000	23.7493
Worker	8.2800e-003	6.4500e-003	0.0728	2.1000e-004	0.0211	1.7000e-004	0.0213	5.6000e-003	1.6000e-004	5.7600e-003	0.0000	19.0268	19.0268	5.6000e-004	0.0000	19.0408
Total	**0.0113**	**0.1014**	**0.0985**	**4.5000e-004**	**0.0271**	**3.6000e-004**	**0.0275**	**7.3500e-003**	**3.5000e-004**	**7.6900e-003**	**0.0000**	**42.7397**	**42.7397**	**2.0100e-003**	**0.0000**	**42.7901**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0429	0.3251	0.3309	5.7000e-004		0.0153	0.0153		0.0148	0.0148	0.0000	47.2100	47.2100	8.2200e-003	0.0000	47.4156
Total	**0.0429**	**0.3251**	**0.3309**	**5.7000e-004**		**0.0153**	**0.0153**		**0.0148**	**0.0148**	**0.0000**	**47.2100**	**47.2100**	**8.2200e-003**	**0.0000**	**47.4156**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9000e-004	0.0317	8.5600e-003	9.0000e-005	2.1300e-003	6.0000e-005	2.1900e-003	6.1000e-004	6.0000e-005	6.7000e-004	0.0000	8.2584	8.2584	4.9000e-004	0.0000	8.2707
Worker	2.7300e-003	2.0500e-003	0.0236	7.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	6.4501	6.4501	1.8000e-004	0.0000	6.4545
Total	**3.7200e-003**	**0.0337**	**0.0321**	**1.6000e-004**	**9.5400e-003**	**1.2000e-004**	**9.6600e-003**	**2.5800e-003**	**1.1000e-004**	**2.6900e-003**	**0.0000**	**14.7085**	**14.7085**	**6.7000e-004**	**0.0000**	**14.7253**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0429	0.3251	0.3309	5.7000e-004		0.0153	0.0153		0.0148	0.0148	0.0000	47.2099	47.2099	8.2200e-003	0.0000	47.4155
Total	**0.0429**	**0.3251**	**0.3309**	**5.7000e-004**		**0.0153**	**0.0153**		**0.0148**	**0.0148**	**0.0000**	**47.2099**	**47.2099**	**8.2200e-003**	**0.0000**	**47.4155**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9000e-004	0.0317	8.5600e-003	9.0000e-005	2.1300e-003	6.0000e-005	2.1900e-003	6.1000e-004	6.0000e-005	6.7000e-004	0.0000	8.2584	8.2584	4.9000e-004	0.0000	8.2707
Worker	2.7300e-003	2.0500e-003	0.0236	7.0000e-005	7.4100e-003	6.0000e-005	7.4700e-003	1.9700e-003	5.0000e-005	2.0200e-003	0.0000	6.4501	6.4501	1.8000e-004	0.0000	6.4545
Total	**3.7200e-003**	**0.0337**	**0.0321**	**1.6000e-004**	**9.5400e-003**	**1.2000e-004**	**9.6600e-003**	**2.5800e-003**	**1.1000e-004**	**2.6900e-003**	**0.0000**	**14.7085**	**14.7085**	**6.7000e-004**	**0.0000**	**14.7253**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4400e-003**	**0.0339**	**0.0440**	**7.0000e-005**		**1.7400e-003**	**1.7400e-003**		**1.6000e-003**	**1.6000e-003**	**0.0000**	**5.8848**	**5.8848**	**1.8700e-003**	**0.0000**	**5.9315**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6206
Total	**2.6000e-004**	**2.0000e-004**	**2.2600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6202**	**0.6202**	**2.0000e-005**	**0.0000**	**0.6206**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4400e-003**	**0.0339**	**0.0440**	**7.0000e-005**		**1.7400e-003**	**1.7400e-003**		**1.6000e-003**	**1.6000e-003**	**0.0000**	**5.8848**	**5.8848**	**1.8700e-003**	**0.0000**	**5.9314**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6202	0.6202	2.0000e-005	0.0000	0.6206
Total	**2.6000e-004**	**2.0000e-004**	**2.2600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6202**	**0.6202**	**2.0000e-005**	**0.0000**	**0.6206**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3718**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	8.7000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2385	0.2385	1.0000e-005	0.0000	0.2387
Total	**1.0000e-004**	**8.0000e-005**	**8.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2385**	**0.2385**	**1.0000e-005**	**0.0000**	**0.2387**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**0.3718**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	8.0000e-005	8.7000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2385	0.2385	1.0000e-005	0.0000	0.2387
Total	**1.0000e-004**	**8.0000e-005**	**8.7000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2385**	**0.2385**	**1.0000e-005**	**0.0000**	**0.2387**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1787	0.9336	2.4137	8.7500e-003	0.7212	7.3300e-003	0.7285	0.1933	6.8400e-003	0.2002	0.0000	808.4168	808.4168	0.0418	0.0000	809.4621
Unmitigated	0.1787	0.9336	2.4137	8.7500e-003	0.7212	7.3300e-003	0.7285	0.1933	6.8400e-003	0.2002	0.0000	808.4168	808.4168	0.0418	0.0000	809.4621

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	779.20	176.80	56.00	1,900,110	1,900,110
Total	779.20	176.80	56.00	1,900,110	1,900,110

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	331.1114	331.1114	0.0137	2.8300e-003	332.2960
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	331.1114	331.1114	0.0137	2.8300e-003	332.2960
NaturalGas Mitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4414	44.4414	8.5000e-004	8.1000e-004	44.7055
NaturalGas Unmitigated	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4414	44.4414	8.5000e-004	8.1000e-004	44.7055

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	832800	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4414	44.4414	8.5000e-004	8.1000e-004	44.7055
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**	**0.0000**	**44.4414**	**44.4414**	**8.5000e-004**	**8.1000e-004**	**44.7055**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	832800	4.4900e-003	0.0408	0.0343	2.4000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4414	44.4414	8.5000e-004	8.1000e-004	44.7055
Total		**4.4900e-003**	**0.0408**	**0.0343**	**2.4000e-004**		**3.1000e-003**	**3.1000e-003**		**3.1000e-003**	**3.1000e-003**	**0.0000**	**44.4414**	**44.4414**	**8.5000e-004**	**8.1000e-004**	**44.7055**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.0392e+006	331.1114	0.0137	2.8300e-003	332.2960
Total		**331.1114**	**0.0137**	**2.8300e-003**	**332.2960**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.0392e+006	331.1114	0.0137	2.8300e-003	332.2960
Total		**331.1114**	**0.0137**	**2.8300e-003**	**332.2960**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3263	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003
Unmitigated	0.3263	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0371					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003
Total	**0.3263**	**1.0000e-005**	**1.0200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9900e-003**	**1.9900e-003**	**1.0000e-005**	**0.0000**	**2.1200e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0371					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2891					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9900e-003	1.9900e-003	1.0000e-005	0.0000	2.1200e-003
Total	**0.3263**	**1.0000e-005**	**1.0200e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.9900e-003**	**1.9900e-003**	**1.0000e-005**	**0.0000**	**2.1200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	94.3500	0.4670	0.0117	109.5144
Unmitigated	94.3500	0.4670	0.0117	109.5144

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	14.2187 / 8.71469	94.3500	0.4670	0.0117	109.5144
Total		**94.3500**	**0.4670**	**0.0117**	**109.5144**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	14.2187 / 8.71469	94.3500	0.4670	0.0117	109.5144
Total		**94.3500**	**0.4670**	**0.0117**	**109.5144**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.1025	0.8925	0.0000	37.4159
Unmitigated	15.1025	0.8925	0.0000	37.4159

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	74.4	15.1025	0.8925	0.0000	37.4159
Total		**15.1025**	**0.8925**	**0.0000**	**37.4159**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	74.4	15.1025	0.8925	0.0000	37.4159
Total		**15.1025**	**0.8925**	**0.0000**	**37.4159**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix D

CalEEMod Annual Emissions Report
General Office Building
(Alternative 2)

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	175.00	1000sqft	4.02	175,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 175 TSF General Office Building.

Construction Phase - No Demolition. CalEEMod Default.

Vehicle Trips - ITE Trip Generation, 10th Edition. Land Use 710 - General Office Building.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.46	2.21
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	WD_TR	11.03	9.74

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1767	1.6445	1.4928	3.0700e-003	0.1287	0.0781	0.2068	0.0538	0.0732	0.1271	0.0000	272.5617	272.5617	0.0497	0.0000	273.8053
2022	0.9126	0.9227	0.9835	2.0100e-003	0.0385	0.0416	0.0801	0.0104	0.0391	0.0495	0.0000	178.1246	178.1246	0.0321	0.0000	178.9270
Maximum	**0.9126**	**1.6445**	**1.4928**	**3.0700e-003**	**0.1287**	**0.0781**	**0.2068**	**0.0538**	**0.0732**	**0.1271**	**0.0000**	**272.5617**	**272.5617**	**0.0497**	**0.0000**	**273.8053**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1767	1.6445	1.4928	3.0700e-003	0.1287	0.0781	0.2068	0.0538	0.0732	0.1271	0.0000	272.5615	272.5615	0.0497	0.0000	273.8051
2022	0.9126	0.9227	0.9835	2.0100e-003	0.0385	0.0416	0.0801	0.0104	0.0391	0.0495	0.0000	178.1244	178.1244	0.0321	0.0000	178.9268
Maximum	**0.9126**	**1.6445**	**1.4928**	**3.0700e-003**	**0.1287**	**0.0781**	**0.2068**	**0.0538**	**0.0732**	**0.1271**	**0.0000**	**272.5615**	**272.5615**	**0.0497**	**0.0000**	**273.8051**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2021**	**8-31-2021**	0.8147	0.8147
2	**9-1-2021**	**11-30-2021**	0.7368	0.7368
3	**12-1-2021**	**2-28-2022**	0.6830	0.6830
4	**3-1-2022**	**5-31-2022**	0.5813	0.5813
5	**6-1-2022**	**8-31-2022**	0.7870	0.7870
		Highest	0.8147	0.8147

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7137	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003
Energy	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	821.5217	821.5217	0.0318	7.9700e-003	824.6906
Mobile	0.3909	2.0422	5.2800	0.0191	1.5776	0.0160	1.5936	0.4229	0.0150	0.4378	0.0000	1,768.4117	1,768.4117	0.0915	0.0000	1,770.6984
Waste						0.0000	0.0000		0.0000	0.0000	33.0368	0.0000	33.0368	1.9524	0.0000	81.8472
Water						0.0000	0.0000		0.0000	0.0000	9.8677	196.5230	206.3907	1.0216	0.0256	239.5628
Total	**1.1144**	**2.1315**	**5.3572**	**0.0197**	**1.5776**	**0.0228**	**1.6004**	**0.4229**	**0.0218**	**0.4446**	**42.9045**	**2,786.4607**	**2,829.3652**	**3.0973**	**0.0336**	**2,916.8037**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7137	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003
Energy	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	821.5217	821.5217	0.0318	7.9700e-003	824.6906
Mobile	0.3909	2.0422	5.2800	0.0191	1.5776	0.0160	1.5936	0.4229	0.0150	0.4378	0.0000	1,768.4117	1,768.4117	0.0915	0.0000	1,770.6984
Waste						0.0000	0.0000		0.0000	0.0000	33.0368	0.0000	33.0368	1.9524	0.0000	81.8472
Water						0.0000	0.0000		0.0000	0.0000	9.8677	196.5230	206.3907	1.0216	0.0256	239.5628
Total	**1.1144**	**2.1315**	**5.3572**	**0.0197**	**1.5776**	**0.0228**	**1.6004**	**0.4229**	**0.0218**	**0.4446**	**42.9045**	**2,786.4607**	**2,829.3652**	**3.0973**	**0.0336**	**2,916.8037**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/7/2021	5	5	
2	Grading	Grading	6/8/2021	6/17/2021	5	8	
3	Building Construction	Building Construction	6/18/2021	5/5/2022	5	230	
4	Paving	Paving	5/6/2022	5/31/2022	5	18	
5	Architectural Coating	Architectural Coating	6/1/2022	6/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 262,500; Non-Residential Outdoor: 87,500; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - GENERAL OFFICE BUILDING - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3043	163.3043	0.0394	0.0000	164.2892
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3043**	**163.3043**	**0.0394**	**0.0000**	**164.2892**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3500e-003	0.2018	0.0547	5.2000e-004	0.0129	4.1000e-004	0.0133	3.7200e-003	3.9000e-004	4.1100e-003	0.0000	50.3962	50.3962	3.0900e-003	0.0000	50.4735
Worker	0.0170	0.0132	0.1493	4.3000e-004	0.0433	3.6000e-004	0.0436	0.0115	3.3000e-004	0.0118	0.0000	39.0425	39.0425	1.1500e-003	0.0000	39.0712
Total	**0.0233**	**0.2150**	**0.2040**	**9.5000e-004**	**0.0561**	**7.7000e-004**	**0.0569**	**0.0152**	**7.2000e-004**	**0.0159**	**0.0000**	**89.4387**	**89.4387**	**4.2400e-003**	**0.0000**	**89.5447**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3041	163.3041	0.0394	0.0000	164.2890
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3041**	**163.3041**	**0.0394**	**0.0000**	**164.2890**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3500e-003	0.2018	0.0547	5.2000e-004	0.0129	4.1000e-004	0.0133	3.7200e-003	3.9000e-004	4.1100e-003	0.0000	50.3962	50.3962	3.0900e-003	0.0000	50.4735
Worker	0.0170	0.0132	0.1493	4.3000e-004	0.0433	3.6000e-004	0.0436	0.0115	3.3000e-004	0.0118	0.0000	39.0425	39.0425	1.1500e-003	0.0000	39.0712
Total	**0.0233**	**0.2150**	**0.2040**	**9.5000e-004**	**0.0561**	**7.7000e-004**	**0.0569**	**0.0152**	**7.2000e-004**	**0.0159**	**0.0000**	**89.4387**	**89.4387**	**4.2400e-003**	**0.0000**	**89.5447**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1177	103.1177	0.0247	0.0000	103.7353
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1177**	**103.1177**	**0.0247**	**0.0000**	**103.7353**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7600e-003	0.1210	0.0327	3.2000e-004	8.1300e-003	2.3000e-004	8.3600e-003	2.3500e-003	2.2000e-004	2.5600e-003	0.0000	31.5310	31.5310	1.8800e-003	0.0000	31.5781
Worker	0.0101	7.5400e-003	0.0868	2.6000e-004	0.0273	2.2000e-004	0.0275	7.2500e-003	2.0000e-004	7.4500e-003	0.0000	23.7775	23.7775	6.5000e-004	0.0000	23.7939
Total	**0.0138**	**0.1285**	**0.1195**	**5.8000e-004**	**0.0354**	**4.5000e-004**	**0.0359**	**9.6000e-003**	**4.2000e-004**	**0.0100**	**0.0000**	**55.3085**	**55.3085**	**2.5300e-003**	**0.0000**	**55.3720**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1176	103.1176	0.0247	0.0000	103.7352
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1176**	**103.1176**	**0.0247**	**0.0000**	**103.7352**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7600e-003	0.1210	0.0327	3.2000e-004	8.1300e-003	2.3000e-004	8.3600e-003	2.3500e-003	2.2000e-004	2.5600e-003	0.0000	31.5310	31.5310	1.8800e-003	0.0000	31.5781
Worker	0.0101	7.5400e-003	0.0868	2.6000e-004	0.0273	2.2000e-004	0.0275	7.2500e-003	2.0000e-004	7.4500e-003	0.0000	23.7775	23.7775	6.5000e-004	0.0000	23.7939
Total	**0.0138**	**0.1285**	**0.1195**	**5.8000e-004**	**0.0354**	**4.5000e-004**	**0.0359**	**9.6000e-003**	**4.2000e-004**	**0.0100**	**0.0000**	**55.3085**	**55.3085**	**2.5300e-003**	**0.0000**	**55.3720**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.8130**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.0000e-004	3.4500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9446	0.9446	3.0000e-005	0.0000	0.9453
Total	**4.0000e-004**	**3.0000e-004**	**3.4500e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.9446**	**0.9446**	**3.0000e-005**	**0.0000**	**0.9453**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.8130**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.0000e-004	3.4500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9446	0.9446	3.0000e-005	0.0000	0.9453
Total	**4.0000e-004**	**3.0000e-004**	**3.4500e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.9446**	**0.9446**	**3.0000e-005**	**0.0000**	**0.9453**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3909	2.0422	5.2800	0.0191	1.5776	0.0160	1.5936	0.4229	0.0150	0.4378	0.0000	1,768.4117	1,768.4117	0.0915	0.0000	1,770.6984
Unmitigated	0.3909	2.0422	5.2800	0.0191	1.5776	0.0160	1.5936	0.4229	0.0150	0.4378	0.0000	1,768.4117	1,768.4117	0.0915	0.0000	1,770.6984

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,704.50	386.75	122.50	4,156,490	4,156,490
Total	1,704.50	386.75	122.50	4,156,490	4,156,490

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	724.3062	724.3062	0.0299	6.1900e-003	726.8974
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	724.3062	724.3062	0.0299	6.1900e-003	726.8974
NaturalGas Mitigated	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	97.2155	97.2155	1.8600e-003	1.7800e-003	97.7932
NaturalGas Unmitigated	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	97.2155	97.2155	1.8600e-003	1.7800e-003	97.7932

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.82175e+006	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	97.2155	97.2155	1.8600e-003	1.7800e-003	97.7932
Total		**9.8200e-003**	**0.0893**	**0.0750**	**5.4000e-004**		**6.7900e-003**	**6.7900e-003**		**6.7900e-003**	**6.7900e-003**	**0.0000**	**97.2155**	**97.2155**	**1.8600e-003**	**1.7800e-003**	**97.7932**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.82175e+006	9.8200e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003	0.0000	97.2155	97.2155	1.8600e-003	1.7800e-003	97.7932
Total		**9.8200e-003**	**0.0893**	**0.0750**	**5.4000e-004**		**6.7900e-003**	**6.7900e-003**		**6.7900e-003**	**6.7900e-003**	**0.0000**	**97.2155**	**97.2155**	**1.8600e-003**	**1.7800e-003**	**97.7932**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.27325e+006	724.3062	0.0299	6.1900e-003	726.8974
Total		**724.3062**	**0.0299**	**6.1900e-003**	**726.8974**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.27325e+006	724.3062	0.0299	6.1900e-003	726.8974
Total		**724.3062**	**0.0299**	**6.1900e-003**	**726.8974**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7137	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003
Unmitigated	0.7137	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003
Total	**0.7137**	**2.0000e-005**	**2.2400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.3400e-003**	**4.3400e-003**	**1.0000e-005**	**0.0000**	**4.6300e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3400e-003	4.3400e-003	1.0000e-005	0.0000	4.6300e-003
Total	**0.7137**	**2.0000e-005**	**2.2400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.3400e-003**	**4.3400e-003**	**1.0000e-005**	**0.0000**	**4.6300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	206.3907	1.0216	0.0256	239.5628
Unmitigated	206.3907	1.0216	0.0256	239.5628

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	31.1034 / 19.0634	206.3907	1.0216	0.0256	239.5628
Total		**206.3907**	**1.0216**	**0.0256**	**239.5628**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	31.1034 / 19.0634	206.3907	1.0216	0.0256	239.5628
Total		**206.3907**	**1.0216**	**0.0256**	**239.5628**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.0368	1.9524	0.0000	81.8472
Unmitigated	33.0368	1.9524	0.0000	81.8472

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	162.75	33.0368	1.9524	0.0000	81.8472
Total		**33.0368**	**1.9524**	**0.0000**	**81.8472**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	162.75	33.0368	1.9524	0.0000	81.8472
Total		**33.0368**	**1.9524**	**0.0000**	**81.8472**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix E

CalEEMod Annual Emissions Report
General Light Industrial

POMONA VMT SCREENING ANALYSIS - GENERAL LIGHT INDUSTRIAL

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 150 TSF General Light Industry.

Construction Phase - No Demolition. CalEEMod Default.

Vehicle Trips - ITE Trip Generation, 10th Edition. Land Use 110 - General Light Industry.

Energy Use -

Operational Off-Road Equipment - A minimum 3 Desiel forlifts are added based on the SCAQMD High-Cube Warehouse Business Survey. Operating time will be 8hrs/day, 365 days/year with default load and horsepower ratings.

Fleet Mix - Fleet mix has been adjusted based on the Fontana Truck Survey. 78.6% Passenger Car and 21.4% Trucks.

POMONA VMT SCREENING ANALYSIS - GENERAL LIGHT INDUSTRIAL - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.06
tblFleetMix	LDA	0.55	0.47
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.20	0.17
tblFleetMix	LHD1	0.02	0.07
tblFleetMix	LHD2	6.1960e-003	0.03
tblFleetMix	MCY	5.1420e-003	4.3880e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	8.7600e-004	3.6950e-003
tblFleetMix	MHD	0.02	0.04
tblFleetMix	OBUS	2.5150e-003	0.01
tblFleetMix	SBUS	6.8700e-004	2.8980e-003
tblFleetMix	UBUS	2.2010e-003	9.2830e-003
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleTrips	ST_TR	1.32	1.99
tblVehicleTrips	SU_TR	0.68	5.00
tblVehicleTrips	WD_TR	6.97	4.96

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4908	270.4908	0.0495	0.0000	271.7273
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9194	176.9194	0.0319	0.0000	177.7175
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4908**	**270.4908**	**0.0495**	**0.0000**	**271.7273**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4906	270.4906	0.0495	0.0000	271.7271
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9193	176.9193	0.0319	0.0000	177.7173
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4906**	**270.4906**	**0.0495**	**0.0000**	**271.7271**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

POMONA VMT SCREENING ANALYSIS - GENERAL LIGHT INDUSTRIAL - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.8053	0.8053
2	9-1-2021	11-30-2021	0.7256	0.7256
3	12-1-2021	2-28-2022	0.6723	0.6723
4	3-1-2022	5-31-2022	0.5735	0.5735
5	6-1-2022	8-31-2022	0.6767	0.6767
		Highest	0.8053	0.8053

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	675.3874	675.3874	0.0247	7.1900e-003	678.1463
Mobile	0.2882	2.6111	3.9305	0.0166	1.1884	0.0179	1.2062	0.3249	0.0168	0.3418	0.0000	1,571.5168	1,571.5168	0.1311	0.0000	1,574.7952
Offroad	0.0622	0.5776	0.6317	8.4000e-004		0.0383	0.0383		0.0352	0.0352	0.0000	73.5245	73.5245	0.0238	0.0000	74.1190
Waste						0.0000	0.0000		0.0000	0.0000	37.7563	0.0000	37.7563	2.2313	0.0000	93.5397
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**0.9768**	**3.3218**	**4.6759**	**0.0183**	**1.1884**	**0.0662**	**1.2546**	**0.3249**	**0.0622**	**0.3871**	**48.7611**	**2,464.3428**	**2,513.1039**	**3.5472**	**0.0351**	**2,612.2447**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	675.3874	675.3874	0.0247	7.1900e-003	678.1463
Mobile	0.2882	2.6111	3.9305	0.0166	1.1884	0.0179	1.2062	0.3249	0.0168	0.3418	0.0000	1,571.5168	1,571.5168	0.1311	0.0000	1,574.7952
Offroad	0.0622	0.5776	0.6317	8.4000e-004		0.0383	0.0383		0.0352	0.0352	0.0000	73.5245	73.5245	0.0238	0.0000	74.1190
Waste						0.0000	0.0000		0.0000	0.0000	37.7563	0.0000	37.7563	2.2313	0.0000	93.5397
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**0.9768**	**3.3218**	**4.6759**	**0.0183**	**1.1884**	**0.0662**	**1.2546**	**0.3249**	**0.0622**	**0.3871**	**48.7611**	**2,464.3428**	**2,513.1039**	**3.5472**	**0.0351**	**2,612.2447**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - GENERAL LIGHT INDUSTRIAL - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/7/2021	5	5	
2	Grading	Grading	6/8/2021	6/17/2021	5	8	
3	Building Construction	Building Construction	6/18/2021	5/5/2022	5	230	
4	Paving	Paving	5/6/2022	5/31/2022	5	18	
5	Architectural Coating	Architectural Coating	6/1/2022	6/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 225,000; Non-Residential Outdoor: 75,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - GENERAL LIGHT INDUSTRIAL - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3043	163.3043	0.0394	0.0000	164.2892
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3043**	**163.3043**	**0.0394**	**0.0000**	**164.2892**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3041	163.3041	0.0394	0.0000	164.2890
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3041**	**163.3041**	**0.0394**	**0.0000**	**164.2890**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1177	103.1177	0.0247	0.0000	103.7353
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1177**	**103.1177**	**0.0247**	**0.0000**	**103.7353**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1176	103.1176	0.0247	0.0000	103.7352
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1176**	**103.1176**	**0.0247**	**0.0000**	**103.7352**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2882	2.6111	3.9305	0.0166	1.1884	0.0179	1.2062	0.3249	0.0168	0.3418	0.0000	1,571.5168	1,571.5168	0.1311	0.0000	1,574.7952
Unmitigated	0.2882	2.6111	3.9305	0.0166	1.1884	0.0179	1.2062	0.3249	0.0168	0.3418	0.0000	1,571.5168	1,571.5168	0.1311	0.0000	1,574.7952

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	744.00	298.50	750.00	3,016,606	3,016,606
Total	744.00	298.50	750.00	3,016,606	3,016,606

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.466408	0.038372	0.174116	0.102716	0.066385	0.026132	0.037640	0.057360	0.010607	0.009283	0.004388	0.002898	0.003695

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	530.5047	530.5047	0.0219	4.5300e-003	532.4026
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	530.5047	530.5047	0.0219	4.5300e-003	532.4026
NaturalGas Mitigated	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.8827	144.8827	2.7800e-003	2.6600e-003	145.7437
NaturalGas Unmitigated	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.8827	144.8827	2.7800e-003	2.6600e-003	145.7437

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.715e+006	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.8827	144.8827	2.7800e-003	2.6600e-003	145.7437
Total		**0.0146**	**0.1331**	**0.1118**	**8.0000e-004**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**144.8827**	**144.8827**	**2.7800e-003**	**2.6600e-003**	**145.7437**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	2.715e+006	0.0146	0.1331	0.1118	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.8827	144.8827	2.7800e-003	2.6600e-003	145.7437
Total		**0.0146**	**0.1331**	**0.1118**	**8.0000e-004**		**0.0101**	**0.0101**		**0.0101**	**0.0101**	**0.0000**	**144.8827**	**144.8827**	**2.7800e-003**	**2.6600e-003**	**145.7437**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.665e+006	530.5047	0.0219	4.5300e-003	532.4026
Total		**530.5047**	**0.0219**	**4.5300e-003**	**532.4026**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.665e+006	530.5047	0.0219	4.5300e-003	532.4026
Total		**530.5047**	**0.0219**	**4.5300e-003**	**532.4026**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Unmitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	154.9152	1.1362	0.0279	191.6406
Unmitigated	154.9152	1.1362	0.0279	191.6406

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.7563	2.2313	0.0000	93.5397
Unmitigated	37.7563	2.2313	0.0000	93.5397

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	186	37.7563	2.2313	0.0000	93.5397
Total		**37.7563**	**2.2313**	**0.0000**	**93.5397**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	186	37.7563	2.2313	0.0000	93.5397
Total		**37.7563**	**2.2313**	**0.0000**	**93.5397**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	3	8.00	365	89	0.20	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0622	0.5776	0.6317	8.4000e-004		0.0383	0.0383		0.0352	0.0352	0.0000	73.5245	73.5245	0.0238	0.0000	74.1190
Total	**0.0622**	**0.5776**	**0.6317**	**8.4000e-004**		**0.0383**	**0.0383**		**0.0352**	**0.0352**	**0.0000**	**73.5245**	**73.5245**	**0.0238**	**0.0000**	**74.1190**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix F

CalEEMod Annual Emissions Report

Warehousing

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - PASSENGER CARS ONLY

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 150 TSF General Warehousing.

Construction Phase - No Demolition. CalEEMod Default construction phase duration.

Vehicle Trips - ITE Trip Generation, 10th Edition, Land Use #150. Passenger Cars = 69% of 1.74 trips/TSF.

Energy Use -

Operational Off-Road Equipment - Diesel Pallet Jack/Forklift Usage = Average 0.12 Units per TSF (SCAQMD High-Cube Warehouse Business Survey. June 2014). All diesel equipment. Operating 8hrs./day, 365 days/year.

Fleet Mix - Fleet mix based on SCAQMD/ITE High Cube Warehouse Vehicle Trip Generation Analysis (October 2016). Passenger Cars = 69%, Truck = 31% Model run for passenger cars only.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.00
tblFleetMix	LDA	0.55	0.59
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.1960e-003	0.00
tblFleetMix	MCY	5.1420e-003	5.5830e-003
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	18.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.20

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4908	270.4908	0.0495	0.0000	271.7273
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9194	176.9194	0.0319	0.0000	177.7175
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4908**	**270.4908**	**0.0495**	**0.0000**	**271.7273**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4906	270.4906	0.0495	0.0000	271.7271
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9193	176.9193	0.0319	0.0000	177.7173
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4906**	**270.4906**	**0.0495**	**0.0000**	**271.7271**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - PASSENGER CARS ONLY - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.8053	0.8053
2	9-1-2021	11-30-2021	0.7256	0.7256
3	12-1-2021	2-28-2022	0.6723	0.6723
4	3-1-2022	5-31-2022	0.5735	0.5735
5	6-1-2022	8-31-2022	0.6767	0.6767
		Highest	0.8053	0.8053

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	193.3575	193.3575	7.8300e-003	1.7200e-003	194.0657
Mobile	0.0650	0.0995	1.1566	3.7700e-003	0.3776	2.6900e-003	0.3803	0.1002	2.4800e-003	0.1027	0.0000	340.8886	340.8886	0.0109	0.0000	341.1622
Offroad	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Waste						0.0000	0.0000		0.0000	0.0000	28.6217	0.0000	28.6217	1.6915	0.0000	70.9091
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**1.0506**	**3.5712**	**4.9539**	**8.8300e-003**	**0.3776**	**0.2328**	**0.6103**	**0.1002**	**0.2142**	**0.3144**	**39.6265**	**1,119.3073**	**1,158.9338**	**2.9892**	**0.0296**	**1,242.4954**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	193.3575	193.3575	7.8300e-003	1.7200e-003	194.0657
Mobile	0.0650	0.0995	1.1566	3.7700e-003	0.3776	2.6900e-003	0.3803	0.1002	2.4800e-003	0.1027	0.0000	340.8886	340.8886	0.0109	0.0000	341.1622
Offroad	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Waste						0.0000	0.0000		0.0000	0.0000	28.6217	0.0000	28.6217	1.6915	0.0000	70.9091
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**1.0506**	**3.5712**	**4.9539**	**8.8300e-003**	**0.3776**	**0.2328**	**0.6103**	**0.1002**	**0.2142**	**0.3144**	**39.6265**	**1,119.3073**	**1,158.9338**	**2.9892**	**0.0296**	**1,242.4954**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - PASSENGER CARS ONLY - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/7/2021	5	5	
2	Grading	Grading	6/8/2021	6/17/2021	5	8	
3	Building Construction	Building Construction	6/18/2021	5/5/2022	5	230	
4	Paving	Paving	5/6/2022	5/31/2022	5	18	
5	Architectural Coating	Architectural Coating	6/1/2022	6/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 225,000; Non-Residential Outdoor: 75,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - PASSENGER CARS ONLY - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3043	163.3043	0.0394	0.0000	164.2892
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3043**	**163.3043**	**0.0394**	**0.0000**	**164.2892**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3041	163.3041	0.0394	0.0000	164.2890
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3041**	**163.3041**	**0.0394**	**0.0000**	**164.2890**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1177	103.1177	0.0247	0.0000	103.7353
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1177**	**103.1177**	**0.0247**	**0.0000**	**103.7353**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1176	103.1176	0.0247	0.0000	103.7352
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1176**	**103.1176**	**0.0247**	**0.0000**	**103.7352**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0650	0.0995	1.1566	3.7700e-003	0.3776	2.6900e-003	0.3803	0.1002	2.4800e-003	0.1027	0.0000	340.8886	340.8886	0.0109	0.0000	341.1622
Unmitigated	0.0650	0.0995	1.1566	3.7700e-003	0.3776	2.6900e-003	0.3803	0.1002	2.4800e-003	0.1027	0.0000	340.8886	340.8886	0.0109	0.0000	341.1622

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	180.00	180.00	180.00	1,014,413	1,014,413
Total	180.00	180.00	180.00	1,014,413	1,014,413

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	16.60	0.00	0.00	100.00	0.00	0.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.593394	0.048819	0.221522	0.130682	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.005583	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.3935	186.3935	7.7000e-003	1.5900e-003	187.0604
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.3935	186.3935	7.7000e-003	1.5900e-003	187.0604
NaturalGas Mitigated	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
NaturalGas Unmitigated	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	130500	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
Total		**7.0000e-004**	**6.4000e-003**	**5.3700e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**6.9640**	**6.9640**	**1.3000e-004**	**1.3000e-004**	**7.0054**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	130500	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
Total		**7.0000e-004**	**6.4000e-003**	**5.3700e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**6.9640**	**6.9640**	**1.3000e-004**	**1.3000e-004**	**7.0054**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	585000	186.3935	7.7000e-003	1.5900e-003	187.0604
Total		**186.3935**	**7.7000e-003**	**1.5900e-003**	**187.0604**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	585000	186.3935	7.7000e-003	1.5900e-003	187.0604
Total		**186.3935**	**7.7000e-003**	**1.5900e-003**	**187.0604**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Unmitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	154.9152	1.1362	0.0279	191.6406
Unmitigated	154.9152	1.1362	0.0279	191.6406

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.6217	1.6915	0.0000	70.9091
Unmitigated	28.6217	1.6915	0.0000	70.9091

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	141	28.6217	1.6915	0.0000	70.9091
Total		**28.6217**	**1.6915**	**0.0000**	**70.9091**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	141	28.6217	1.6915	0.0000	70.9091
Total		**28.6217**	**1.6915**	**0.0000**	**70.9091**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	18	8.00	365	89	0.20	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Total	**0.3732**	**3.4653**	**3.7901**	**5.0200e-003**		**0.2296**	**0.2296**		**0.2112**	**0.2112**	**0.0000**	**441.1470**	**441.1470**	**0.1427**	**0.0000**	**444.7139**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - TRUCKS ONLY

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	150.00	1000sqft	3.44	150,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Opening Year 2022.

Land Use - 150 TSF General Warehousing.

Construction Phase - No Demolition. CalEEMod Default construction phase duration.

Vehicle Trips - ITE Trip Generation, 10th Edition, Land Use #150. Truck Trip Gen = 31% of 1.74 trips/TSF. Truck Trip Length = 40 miles (C-NW). No pass-by or diverted trips.

Energy Use -

Operational Off-Road Equipment - Pallet Jack/Forklift Usage = Average 0.12 Units per TSF (SCAQMD High-Cube Warehouse Business Survey. June 2014). Assumes worst-case all diesel equipment operating 8 hrs./day, 365 days/year.

Fleet Mix - Fleet mix based on SCAQMD/ITE High Cube Warehouse Vehicle Trip Generation Analysis (October 2016). Passenger Cars = 69%, Trucks = 31% Model run for trucks only.

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - TRUCKS ONLY - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.60
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.20	0.00
tblFleetMix	LHD1	0.02	0.16
tblFleetMix	LHD2	6.1960e-003	0.06
tblFleetMix	MCY	5.1420e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	8.7600e-004	0.00
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	2.5150e-003	0.00
tblFleetMix	SBUS	6.8700e-004	0.00
tblFleetMix	UBUS	2.2010e-003	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	18.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CNW_TTP	41.00	100.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.54
tblVehicleTrips	SU_TR	1.68	0.54
tblVehicleTrips	WD_TR	1.68	0.54

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4908	270.4908	0.0495	0.0000	271.7273
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9194	176.9194	0.0319	0.0000	177.7175
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4908**	**270.4908**	**0.0495**	**0.0000**	**271.7273**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1779	1.6183	1.5040	3.0600e-003	0.1323	0.0781	0.2104	0.0547	0.0732	0.1280	0.0000	270.4906	270.4906	0.0495	0.0000	271.7271
2022	0.7976	0.9070	0.9904	2.0000e-003	0.0410	0.0416	0.0826	0.0111	0.0391	0.0501	0.0000	176.9193	176.9193	0.0319	0.0000	177.7173
Maximum	**0.7976**	**1.6183**	**1.5040**	**3.0600e-003**	**0.1323**	**0.0781**	**0.2104**	**0.0547**	**0.0732**	**0.1280**	**0.0000**	**270.4906**	**270.4906**	**0.0495**	**0.0000**	**271.7271**

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - TRUCKS ONLY - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2021**	**8-31-2021**	0.8053	0.8053
2	**9-1-2021**	**11-30-2021**	0.7256	0.7256
3	**12-1-2021**	**2-28-2022**	0.6723	0.6723
4	**3-1-2022**	**5-31-2022**	0.5735	0.5735
5	**6-1-2022**	**8-31-2022**	0.6767	0.6767
		Highest	0.8053	0.8053

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	193.3575	193.3575	7.8300e-003	1.7200e-003	194.0657
Mobile	0.1620	4.3448	1.3567	0.0169	0.5151	0.0162	0.5313	0.1450	0.0155	0.1605	0.0000	1,647.6162	1,647.6162	0.0839	0.0000	1,649.7135
Offroad	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Waste						0.0000	0.0000		0.0000	0.0000	28.6217	0.0000	28.6217	1.6915	0.0000	70.9091
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**1.1476**	**7.8165**	**5.1540**	**0.0220**	**0.5151**	**0.2463**	**0.7613**	**0.1450**	**0.2272**	**0.3722**	**39.6265**	**2,426.0348**	**2,465.6613**	**3.0621**	**0.0296**	**2,551.0467**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Energy	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	193.3575	193.3575	7.8300e-003	1.7200e-003	194.0657
Mobile	0.1620	4.3448	1.3567	0.0169	0.5151	0.0162	0.5313	0.1450	0.0155	0.1605	0.0000	1,647.6162	1,647.6162	0.0839	0.0000	1,649.7135
Offroad	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Waste						0.0000	0.0000		0.0000	0.0000	28.6217	0.0000	28.6217	1.6915	0.0000	70.9091
Water						0.0000	0.0000		0.0000	0.0000	11.0047	143.9104	154.9152	1.1362	0.0279	191.6406
Total	**1.1476**	**7.8165**	**5.1540**	**0.0220**	**0.5151**	**0.2463**	**0.7613**	**0.1450**	**0.2272**	**0.3722**	**39.6265**	**2,426.0348**	**2,465.6613**	**3.0621**	**0.0296**	**2,551.0467**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - TRUCKS ONLY - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2021	6/7/2021	5	5	
2	Grading	Grading	6/8/2021	6/17/2021	5	8	
3	Building Construction	Building Construction	6/18/2021	5/5/2022	5	230	
4	Paving	Paving	5/6/2022	5/31/2022	5	18	
5	Architectural Coating	Architectural Coating	6/1/2022	6/24/2022	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 225,000; Non-Residential Outdoor: 75,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

POMONA VMT SCREENING ANALYSIS - WAREHOUSING - TRUCKS ONLY - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0990	0.0634	1.2000e-004		4.6400e-003	4.6400e-003		4.2700e-003	4.2700e-003	0.0000	10.4215	10.4215	3.3700e-003	0.0000	10.5057
Total	**9.1600e-003**	**0.0990**	**0.0634**	**1.2000e-004**	**0.0262**	**4.6400e-003**	**0.0309**	**0.0135**	**4.2700e-003**	**0.0177**	**0.0000**	**10.4215**	**10.4215**	**3.3700e-003**	**0.0000**	**10.5057**

3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	2.2700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5934	0.5934	2.0000e-005	0.0000	0.5938
Total	**2.6000e-004**	**2.0000e-004**	**2.2700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5934**	**0.5934**	**2.0000e-005**	**0.0000**	**0.5938**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3043	163.3043	0.0394	0.0000	164.2892
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3043**	**163.3043**	**0.0394**	**0.0000**	**164.2892**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1340	1.2290	1.1686	1.9000e-003		0.0676	0.0676		0.0635	0.0635	0.0000	163.3041	163.3041	0.0394	0.0000	164.2890
Total	**0.1340**	**1.2290**	**1.1686**	**1.9000e-003**		**0.0676**	**0.0676**		**0.0635**	**0.0635**	**0.0000**	**163.3041**	**163.3041**	**0.0394**	**0.0000**	**164.2890**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4700e-003	0.1739	0.0472	4.5000e-004	0.0111	3.5000e-004	0.0115	3.2000e-003	3.4000e-004	3.5400e-003	0.0000	43.4450	43.4450	2.6600e-003	0.0000	43.5116
Worker	0.0191	0.0149	0.1680	4.9000e-004	0.0487	4.0000e-004	0.0491	0.0129	3.7000e-004	0.0133	0.0000	43.9228	43.9228	1.2900e-003	0.0000	43.9551
Total	**0.0246**	**0.1888**	**0.2151**	**9.4000e-004**	**0.0598**	**7.5000e-004**	**0.0605**	**0.0161**	**7.1000e-004**	**0.0168**	**0.0000**	**87.3678**	**87.3678**	**3.9500e-003**	**0.0000**	**87.4667**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1177	103.1177	0.0247	0.0000	103.7353
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1177**	**103.1177**	**0.0247**	**0.0000**	**103.7353**

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0759	0.6949	0.7282	1.2000e-003		0.0360	0.0360		0.0339	0.0339	0.0000	103.1176	103.1176	0.0247	0.0000	103.7352
Total	**0.0759**	**0.6949**	**0.7282**	**1.2000e-003**		**0.0360**	**0.0360**		**0.0339**	**0.0339**	**0.0000**	**103.1176**	**103.1176**	**0.0247**	**0.0000**	**103.7352**

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2400e-003	0.1043	0.0282	2.8000e-004	7.0100e-003	2.0000e-004	7.2000e-003	2.0200e-003	1.9000e-004	2.2100e-003	0.0000	27.1819	27.1819	1.6200e-003	0.0000	27.2225
Worker	0.0113	8.4800e-003	0.0977	3.0000e-004	0.0307	2.5000e-004	0.0310	8.1600e-003	2.3000e-004	8.3900e-003	0.0000	26.7497	26.7497	7.4000e-004	0.0000	26.7682
Total	**0.0146**	**0.1128**	**0.1258**	**5.8000e-004**	**0.0377**	**4.5000e-004**	**0.0382**	**0.0102**	**4.2000e-004**	**0.0106**	**0.0000**	**53.9316**	**53.9316**	**2.3600e-003**	**0.0000**	**53.9906**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7900e-003	0.0857	0.1098	1.7000e-004		4.3900e-003	4.3900e-003		4.0500e-003	4.0500e-003	0.0000	14.7383	14.7383	4.6300e-003	0.0000	14.8540
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.7900e-003**	**0.0857**	**0.1098**	**1.7000e-004**		**4.3900e-003**	**4.3900e-003**		**4.0500e-003**	**4.0500e-003**	**0.0000**	**14.7383**	**14.7383**	**4.6300e-003**	**0.0000**	**14.8540**

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.4000e-004	6.2700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7175	1.7175	5.0000e-005	0.0000	1.7187
Total	**7.3000e-004**	**5.4000e-004**	**6.2700e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7175**	**1.7175**	**5.0000e-005**	**0.0000**	**1.7187**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6953					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.6971**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.5000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1164	1.1164	3.0000e-005	0.0000	1.1171
Total	**4.7000e-004**	**3.5000e-004**	**4.0800e-003**	**1.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.1164**	**1.1164**	**3.0000e-005**	**0.0000**	**1.1171**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1620	4.3448	1.3567	0.0169	0.5151	0.0162	0.5313	0.1450	0.0155	0.1605	0.0000	1,647.6162	1,647.6162	0.0839	0.0000	1,649.7135
Unmitigated	0.1620	4.3448	1.3567	0.0169	0.5151	0.0162	0.5313	0.1450	0.0155	0.1605	0.0000	1,647.6162	1,647.6162	0.0839	0.0000	1,649.7135

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	81.00	81.00	81.00	1,179,360	1,179,360
Total	81.00	81.00	81.00	1,179,360	1,179,360

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No Rail	0.00	0.00	40.00	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.157396	0.061959	0.177419	0.603226	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.3935	186.3935	7.7000e-003	1.5900e-003	187.0604
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.3935	186.3935	7.7000e-003	1.5900e-003	187.0604
NaturalGas Mitigated	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
NaturalGas Unmitigated	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	130500	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
Total		**7.0000e-004**	**6.4000e-003**	**5.3700e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**6.9640**	**6.9640**	**1.3000e-004**	**1.3000e-004**	**7.0054**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	130500	7.0000e-004	6.4000e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9640	6.9640	1.3000e-004	1.3000e-004	7.0054
Total		**7.0000e-004**	**6.4000e-003**	**5.3700e-003**	**4.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**6.9640**	**6.9640**	**1.3000e-004**	**1.3000e-004**	**7.0054**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	585000	186.3935	7.7000e-003	1.5900e-003	187.0604
Total		**186.3935**	**7.7000e-003**	**1.5900e-003**	**187.0604**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	585000	186.3935	7.7000e-003	1.5900e-003	187.0604
Total		**186.3935**	**7.7000e-003**	**1.5900e-003**	**187.0604**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Unmitigated	0.6117	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5420					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7200e-003	3.7200e-003	1.0000e-005	0.0000	3.9700e-003
Total	**0.6117**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7200e-003**	**3.7200e-003**	**1.0000e-005**	**0.0000**	**3.9700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	154.9152	1.1362	0.0279	191.6406
Unmitigated	154.9152	1.1362	0.0279	191.6406

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	34.6875 / 0	154.9152	1.1362	0.0279	191.6406
Total		**154.9152**	**1.1362**	**0.0279**	**191.6406**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.6217	1.6915	0.0000	70.9091
Unmitigated	28.6217	1.6915	0.0000	70.9091

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	141	28.6217	1.6915	0.0000	70.9091
Total		**28.6217**	**1.6915**	**0.0000**	**70.9091**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	141	28.6217	1.6915	0.0000	70.9091
Total		**28.6217**	**1.6915**	**0.0000**	**70.9091**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	18	8.00	365	89	0.20	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	0.3732	3.4653	3.7901	5.0200e-003		0.2296	0.2296		0.2112	0.2112	0.0000	441.1470	441.1470	0.1427	0.0000	444.7139
Total	**0.3732**	**3.4653**	**3.7901**	**5.0200e-003**		**0.2296**	**0.2296**		**0.2112**	**0.2112**	**0.0000**	**441.1470**	**441.1470**	**0.1427**	**0.0000**	**444.7139**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment C

Screening Worksheets

				GHG Emissions	
Use (Unit)/ITE Code	Daily Trip Rate per Unit	Daily Trip Threshold	Units (DU or TSF)	(MTCO2e) per Year	(MTCO2e) per Unit per Year
Single Family (DU)/210	9.44	1,416	150	2,868	19.12
Multi-Family (DU)/220	7.32	1,464	200	2,847	14.24
General Office (TSF)/710	9.74	779	80	1,342	16.78
Industrial (TSF)/110	4.96	744	150	2,627	17.51

	GHG Emissions (MTCO2e) per Year
GHG Threshold for Residential and Industrial uses	3,000
GHG Threshold for Office use	1,400

Example 1 Screening for Developments with Mix of Residential Units

Use	No. of Units	Daily Trip Rate per DU	Total Average Daily Trip	Exceeds Daily Trip Threshold of 1,464 trips	GHG Emissions (MTCO2e) per Unit per Year[1]	Total GHG Emissions (MTCO2e) per Year	Exceed SCAQMD GHG Threshold of 3000 MT CO2e per year
Single Family	65	9.44	614	No	19.12	1,243	No
Multi-Family	115	7.32	842	Yes	14.24	1,638	No
Total	180		1,456	Yes		2,881	No

Notes:

DU = dwelling units; TSF = thousand square feet; ADT = average daily traffic; GHG = Greenhouse Gas; MT CO2e = metric tons of carbon dioxide equivalent per year.

[1] GHG emissions per unit per year (i.e., 19.12 MT CO2e per single-family unit and 14.24 MT CO_2e per multifamily unit) were estimated by dividing the annual GHG emissions per year of 2,868 MT CO_2e and 2,847 MT

Use (Unit)/ITE Code	Daily Trip Rate per Unit	Daily Trip Threshold	Units (DU or TSF)	GHG Emissions (MTCO2e) per Year	GHG Emissions (MTCO2e) per Unit per Year
Single Family (DU)/210	9.44	1,416	150	2,868	19.12
Multi-Family (DU)/220	7.32	1,464	200	2,847	14.24
General Office (TSF)/710	9.74	779	80	1,342	16.78
Industrial (TSF)/110	4.96	744	150	2,627	17.51

	GHG Emissions (MTCO2e) per Year
GHG Threshold for Residential and Industrial uses	3,000
GHG Threshold for Office use	1,400

Example 2 Screening for All Uses

Use	No. of Units	Daily Trip Rate per DU or TSF	Total Average Daily Trip	Exceeds Daily Trip Threshold	GHG Emissions (MTCO2e) per Unit per Year	Total GHG Emissions (MTCO2e) per Year	Exceed SCAQMD GHG Threshold of 3000 MT CO2e per year
Single Family	65	9.44	614	No	19.12	1,243	No
Multi-Family	115	7.32	842	No	14.24	1,638	No
General Office (TSF)/710	100	9.74	974	Yes	16.78	1,678	Yes
Industrial (TSF)/110	100	4.96	496	No	17.51	1,752	No

Notes:

DU = dwelling units; TSF = thousand square feet; ADT = average daily traffic; GHG = Greenhouse Gas; MT CO2e = metric tons of carbon dioxide equivalent per year.